



DEPARTMENT OF ENVIRONMENTAL QUALITY

KATHLEEN BABINEAUX BLANCO

GOVERNOR

MIKE D. McDANIEL, Ph.D.

SECRETARY

Certified Mail No.

Mr. Anne-Marie Ainsworth
General Manager
Motiva Enterprises LLC, Norco Refinery
Post Office Box 10
Norco, Louisiana 70079

Agency Interest No. 1406
Activity No.: PER20070018

RE: Part 70 Operating Permit Modification, Hydrocracker Unit, Norco Refinery, Motiva Enterprises LLC, Norco, St. Charles Parish, Louisiana

Dear Mr. Ainsworth:

This is to inform you that the permit modification for the above referenced facility has been approved under LAC 33:III.501. The permit is both a state preconstruction and Part 70 Operating Permit. The submittal was approved on the basis of the emissions reported and the approval in no way guarantees the design scheme presented will be capable of controlling the emissions as to the types and quantities stated. A new application must be submitted if the reported emissions are exceeded after operations begin. The synopsis, data sheets and conditions are attached herewith.

It will be considered a violation of the permit if all proposed control measures and/or equipment are not installed and properly operated and maintained as specified in the application.

Operation of this facility is hereby authorized under the terms and conditions of this permit. This authorization shall expire at midnight on the 14th of April, 2010, unless a timely and complete renewal application has been submitted six months prior to expiration. Terms and conditions of this permit shall remain in effect until such time as the permitting authority takes final action on the application for permit renewal. The permit number and Agency Interest No. cited above should be referenced in future correspondence regarding this facility.

Done this _____ day of _____, 2008.

Permit No.: 2629-V2

Sincerely,

Chuck Carr Brown, Ph.D.
Assistant Secretary

SGQ
cc: EPA Region VI

ENVIRONMENTAL SERVICES
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**AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**NORCO REFINERY, HYDROCRACKER UNIT
AGENCY INTEREST NO. 1406
MOTIVA ENTERPRISES LLC
NORCO, ST. CHARLES PARISH, LOUISIANA**

I. Background

Motiva Enterprises LLC operates the Hydrocracker Unit (HCU) under Part 70 Operating Permit No. 2629-V1 dated April 14, 2005.

II. Origin

This review was initiated by an application and Emission Inventory Questionnaire (EIQ) dated July 16, 2007, requesting a Part 70 Operating permit modification. Additional information was requested and was submitted on August 30, 2007 and as of November 15, 2007.

III. Description

The Hydrocracking Unit (HCU) processes straight run and cracked gas oils into lighter products (volatiles, gasoline, and naphtha) and distillates. The feed materials are combined with hydrogen and heated in the gas-fired 1st Stage Reaction Heater F-41 prior to entering the 1st stage hydrocracking reactor where sulfur and nitrogen compounds are removed via catalytic reaction with hydrogen. The unreacted hydrogen is removed in a series of separator vessels following the reactor, while the hydrocarbons undergo fractionation in the 1st stage fractionator. The heat input for the 1st stage fractionator is provided by the gas-fired 1st Stage Fractionator Reboiler F-42. The bottoms from the 1st stage fractionator are combined with the recycle bottoms from the 2nd stage fractionator and fresh gas oil feeds. The combined recycle and fresh feed are mixed with hydrogen and heated in the gas-fired 2nd Stage Reaction Heater F-43 prior to entering the 2nd stage hydrocracking reactor. The 2nd stage reactor products are flashed to remove light hydrocarbons from the product stream. The liquid portion is sent to the fractionator train, the heat input for the 2nd stage fractionator is provided by the gas-fired Main Fractionator Reboiler F-44.

Motiva proposes to modify the HCU and the Hydrogen Plants during the 2008 Turnaround. The turnaround modifications will result in minor changes inside the battery limits of the Distillation Unit (DU-5), Diesel Hydrotreater (DHT) Unit, and the Catalytic Reformer No. 2 (CR-2) Unit. The turnaround has a potential to result in an increased utilization (operating rate and/or hours of operation) of equipment downstream of the HCU and Hydrogen Plants; i.e., Catalytic Reformer No. 1 (CR-1) Unit, Saturates Gas Plant, Residue Catalytic Cracking Unit (RCCU), Sulfur Plant No. 2 (S-2), Sulfur Plant

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No. 3 (S-3), Logistics I area, and Logistics II area. The proposed modifications are as follows:

1. HCU 2nd Stage High Pressure Separator (PV-816): The changes will be made to the separator to improve its oil and water separation efficiency by increasing the amount of recycle water available for washing the exchangers upstream of the separator. This will not increase the utilization of the unit;
2. Replacement of Heat Exchanger (E-1057): The HCU heat exchanger will be replaced in part (channel and associated tubes) and in kind as it is eroded/corroded and currently does not provide adequate heat transfer efficiency. There will not be any increase in the utilization of the heat exchanger;
3. Hydrogen Plant Upgrade: Several control valves will be upgraded (increase flow) to minimize safety concerns for maintenance of equipment without a shutdown. Several heat exchangers will be upgraded to avoid over pressure for safety reasons. Other heat exchangers will be provided adequate flow without bypass to avoid overpressure build up. This will contribute to safety of the equipment;
4. Install a new Naphtha Control Valve: The naphtha control valve, HV-0654, controls the quality and temperature of the product routed to the catalytic reformers. The current valve does not allow effective control and generates large temperature fluctuations. This change will increase the naphtha product feed to the catalytic reformers and potentially decrease naphtha product routed to the DHT. There will be an increase in product yield and a reduction in coke formation;
5. Install Positive Isolation Valve for 310# Steam to Methane Reformer Furnace (F-45): During turnarounds and emergency shutdowns, 310 pound steam line condensate leaks into the Methane Reformer Furnace which results in delayed startups. This will improve the drainage time and operation of the unit when brought on line, thus reducing startup emissions;
6. Install Ultra-Flat Quench (UFQ) Trays for 1st Stage HCU Reactor: The existing internals in the HCU 1st Stage Reactor take up unnecessary internal space. The trays will be upgraded to allow for more catalyst (volume) which will result in increased efficiency of the reactor. This will increase the utilization of the unit;
7. Install New Diethanolamine (DEA) Pump: A new pump will be installed, existing pumps and associated piping will be upgraded to increase flow rate of the lean DEA to the 1st Stage DEA Treater and the fat DEA in the HCU. This will increase the utilization of the Sulfur Plants;

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8. Increase the Turnaround Interval for the HCU: Existing piping configuration will be upgraded to allow for the bypass of heat exchangers so that the cleaning operations can be performed without a shutdown (on the run). This includes and not limited to metallurgy upgrades for specific heat exchangers and installation of equipment to allow for the injection of a solvent material to clean compressors on the run. This will increase the operating time, utilization of the unit and extend turnaround intervals;
9. Replace Pumps P-1171 and P-2320: The existing pumps operate in light hydrocarbon service and are having seal leak problems. The pumps are old and the existing seals cannot be upgraded to mechanical seals; therefore, two new identical pumps with tandem seals and seal pots will be installed. This will improve the operational reliability of the equipment;
10. Upgrade HCU Instrumentation: The upgrade of equipment control functions (Triconex or Delta V Logic) will improve operability and reduce unnecessary trips. This will improve the operational reliability and reduce downtime;
11. DU-5 Vacuum Flasher Tray 3 Routed to HCU 1st Stage: New piping will be installed from the DU-5 to route Vacuum Flasher Tray 3 Light Vacuum Gas Oil (LVGO) directly to the HCU 1st Stage feed drum (10,000 barrels per day). This will allow the refinery to market Tray 29/30 liquids as straight run diesel. This will not increase the utilization of the unit;
12. Replacement of the HCU Substation: The existing substation was installed in 1960's and is at the end of its useful life and no longer supported by the manufacturer for spare parts. The new substation will provide reliable electrical service to the HCU;
13. Reroute the DHT Naphtha to the HCU 2nd Stage Main Fractionator: Currently the DHT naphtha stream is being routed to the waste oil/water system which potentially has safety concerns. Rerouting DHT naphtha stream will reduce the load on the waste oil/water system and alleviate safety concerns;
14. Replace Johnson Screens for High/Low Temperature Shift Reactor: The replacement will correct flow maldistribution and increase catalyst life;
15. Retract Sulfinol Regenerator: Currently the sulfinol system has excess CO₂ concentrations and high velocities which contribute to corrosion and erosion of the system. This will improve the CO₂ stripping efficiency, reduce velocities and improve distribution of the regenerator; and
16. Replace HCU 2nd Stage Reactor Exchanger Tube Bundle: Replacement of the HCU 2nd Stage Reactor effluent cooling water exchanger tube bundle will provide additional cooling capacity during summer months.

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Note that the above listed changes and modifications are not considered a modification or reconstruction under the provisions of 40 CFR 60.14(c), 60.14(e) and 60.15 as the total investment is expected to be around \$35 million, which is less than 50% of the capital cost. There will not be any change in the permitted criteria pollutants emissions at the facility except for VOC emissions due to new piping and fugitive component being added and due to the increase in tankage capacity (yield and utilization). The affected units for increase in VOC emissions due to piping, fugitive components, and tankage are Hydrogen Plant Fugitives (Emission Point 5011-99), Diesel Hydrotreater Unit Fugitives (Emission Point 3013-95), Distilling Unit Fugitives (Emission Point 3004-95), Catalytic Reformer No. 2 Unit Fugitives (Emission Point 3010-95), Logistics I (Emission Points 1230-95, 1238-95, 1247-95, and 1254-95), and Residue Catalytic Cracking Unit (Emission Points 1035-95 and 1068-95).

The CO emissions from the existing HCU Flare, Emission Point 4-84, are changing mostly due to the updated U.S. EPA emission factor from 0.04 to 0.37 lb/MM BTU (AP-42, Fifth Edition, Chapter 13.5, Industrial Flares, September 1991). Similarly NOx emissions are changing due to the updated U.S. EPA emissions factor from 0.55 (AP-42, Chapter 1.4) to 0.068 lb/MM BTU (AP-42, Fifth Edition, Chapter 13.5, Industrial Flares, September 1991).

The West Ops Ground Flare, Emission Point 9-84, emission changed because of the Authorization to Construct/Operate dated April 4, 2003 and the updated emission factors referenced above.

The HCU Flare is permitted under the Part 70 Permit No. 2913-V0 and West Ops Ground Flare Part 70 Permit No. 2912-V0.

Other miscellaneous routine maintenance and repair work will be performed on equipment during the HCU and Hydrogen Plants turnaround. There will not be any change in permitted emissions from other affected units; Catalytic Reformer (CR-1 and CR-2) Units, Sats Gas Plant, Residue Catalytic Cracking (RCC) Unit, Distillation Unit (DU-5), Diesel Hydrotreater (DHT) Unit, Sulfur Plant (S-2 and S-3), and Logistics I and II. Hydrocracking Unit (HCU) and the Hydrogen Plant will experience improved uptime reliability.

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Permitted emissions from the HCU in tons per year are as follows:

<u>Pollutant</u>	<u>Before</u>	<u>After</u>	<u>Change</u>
PM ₁₀	7.30	7.24	- 0.06
SO ₂	26.50	26.53	+ 0.03
NO _x	99.60	99.64	+ 0.04
CO	83.50	83.47	- 0.03
VOC	110.40	110.40	-
H ₂ S	0.40	0.39	- 0.01

The facility is classified under "Petroleum Refineries" for which there are established standards in New Source Performance Standards (NSPS), 40 CFR 60, Subpart J – Petroleum Refineries. Motiva is also subject to NSPS, 40 CFR 60, Subpart GGG – Standards of Performance for Equipment Leaks of VOC in Petroleum Refineries; 40 CFR 60, Subpart QQQ – Standards of Performance for VOC Emissions From Petroleum Refinery Wastewater System; 40 CFR 61, Subpart FF – National Emission Standard for Benzene Waste Operations; and 40 CFR 63, Subpart CC – National Emission Standards for Hazardous Air Pollutants From Petroleum Refineries. The refinery as a whole is a major source of toxic air pollutants and must comply with all the applicable provisions of LAC 33:III.Chapter 51 – Comprehensive Toxics Air Pollutant Emission Control Program and the Louisiana Refinery MACT Determination July 26, 1994 with some minor changes.

IV. Type of Review

This application was reviewed for compliance with the Louisiana Part 70 operating permit program, Louisiana Air Quality Regulations, NSPS, and NESHAP. The facility is a major source of toxic air pollutants (TAPs) pursuant to LAC 33:III.Chapter 51. The air toxic compliance plan was approved January 8, 1996 and has been incorporated in this permit. Motiva shall manage and treat the facility's water so that the benzene quantity is equal to or less than 6 MG/yr (13,200 lbs/yr) as per the requirements of 40 CFR 61.643(e).

Estimated emissions increases from the HCU Turnaround Project including the affected sources based on actual to potential, and actual to projected actual (where no modification is done to the unit or equipment but the emissions are increasing due to the turnaround project), excluding the flares, in tons per year is as follows:

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<u>Pollutant</u>	<u>2005/2006 Average Emissions</u>	<u>Post Project Emissions</u>	<u>Change</u>
PM ₁₀	24.73	40.21	+ 15.48
SO ₂	57.18	187.41	+ 130.23
NO _X	374.48	694.41	+ 319.93
CO	243.32	365.66	+ 122.34
VOC	24.23	57.08	+ 32.85
H ₂ S	1.59	3.37	+ 1.78

The total emissions reported for the **entire refinery** and the permitted emissions are shown in the table below:

<u>Pollutant</u>	<u>Emissions Reported *</u>	<u>Currently Permitted Emissions</u>
PM ₁₀	160.00	215.08
SO ₂	770.00	903.47
NO _X	3250.00	4127.74
CO	1160.00	1936.14
VOC	1350.00	3823.33

- * The emissions are based on the maximum reported in the period of 2003 thru 2006. Also, note that the total permitted emissions will not change.

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Estimated emissions increase from the existing flares in tons per year is as follows:

<u>Pollutant</u>	<u>Permitted Emissions</u>	<u>Post Project Emissions</u>	<u>Change</u>
PM ₁₀	4.59	3.55	- 1.04
SO ₂	0.75	1.52	+ 0.77
NO _x	24.39	32.43	+ 8.04
CO	132.71	176.44	+ 43.73
VOC	162.81	72.25	- 90.56

The overall emissions increase from the HCU Turnaround Project is significant for all criteria pollutants but there is no physical or operational change at the units as per the provisions of 40 CFR 60.14(c), 60.14(e), and 60.15. The only emissions increase that can be considered as a modification at the units is due to the addition (physical and operational change with emissions increase) of new piping and fugitive components; therefore, the pollutant of concern for netting is the VOC emissions from the Turnaround Project.

For the netting analysis a contemporaneous period will have to be established. The HCU Turnaround Project is expected to start by February 1, 2008. Therefore, the beginning of the Prevention of Significant Deterioration (PSD) contemporaneous period will be five years prior to February 1, 2008. The HCU Turnaround Project is expected to end in March 2008. Therefore, all emission changes from February 1, 2003 through March 2008 will be accounted for in the contemporaneous period for VOC.

The facility does not net out of PSD review for VOC emissions (fugitives). Therefore, the best available control technology (BACT) for VOC emissions from piping and fugitive components is determined to be the implementation of leak detection and repair (LDAR). The facility will implement the LDAR program as per the federal requirements and as approved by LDEQ.

VOC is a surrogate for ozone and no significant air quality concentration for ozone has been established. Instead, any modification with an increase of 100 tons per year of VOC requires a dispersion modeling analysis under the PSD requirements. The emissions increase due to the HCU Turnaround Project (actual to potential) is greater than 100 tons per year; therefore, air dispersion modeling is required. The facility did the dispersion modeling

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analysis utilizing the screening procedure presented by the Scheffe's method.

The proposed HCU Turnaround Project result in a significant increase in emissions for all criteria pollutants. The facility performed an Air Quality Impact Analysis (AQIA) to evaluate whether the net emissions increase in PM₁₀, SO₂, and NO₂ will exceed the adopted USEPA PSD modeling significance levels for both Class I and Class II areas. Ozone analysis (VOC precursor) will be discussed separately.

For Class II area the significance level for PM₁₀, SO₂, and NO₂ is 1 ug/m³ for the annual averaging period. For each pollutant, the area of impact (AOI) was determined. For preconstruction monitoring the maximum modeled concentration result from the significance analysis for PM₁₀, SO₂, and NO₂, respectively, were compared with the PSD significance monitoring values and it was determined that the results did not exceed the PSD significant monitoring levels for any pollutants. CO was not considered as it has only the short term standards.

Standards (ug/m³)

<u>Pollutant</u>	<u>PSD Modeling SIL</u>	<u>PSD Significant Monitoring Conc.</u>	<u>PSD Class II Increment</u>	<u>NAAQS*</u>
PM ₁₀ Annual	1	-	17	50
SO ₂ Annual	1	-	20	80
NO ₂ Annual	1	14	25	100

* National Ambient Air Quality Standards.

Modeled Results (ug/m³)

<u>Pollutant</u>	<u>Maximum Monitoring Concentrations</u>	<u>Maximum Increment Conc.</u>	<u>Total Concentrations</u>	<u>Proposed SIL</u>
PM ₁₀ Annual	8.3	16	30	0.20
SO ₂ Annual	1.3	14	42	0.10
NO ₂ Annual	1.3	22	95	0.10

USEPA has not established any PSD modeling significance levels for ozone. VOC is a precursor for ozone. VOC emissions increase is more than 100 tons/yr and an ambient

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impact analysis is required. Regional ozone data for 2004 thru 2006 was utilized to establish the background ozone concentration for VOC ambient impact analysis and for the preconstruction monitoring requirements. Screening dispersion modeling using the model results listed in the EPA document entitled APoint Source Screening for Ozone Precursor Emissions (Richard D. Scheffe, U.S. EPA, 1988) predicted the ozone concentrations of 0.092 ppm which is less than the 0.12 ppm National Ambient Air Quality Standards (NAAQS) for ozone. The Scheffe method gives very conservative results; therefore, no refined modeling was required.

In conclusion, the HCU Turnaround Project would not cause or contribute to an exceedance of any applicable air quality standards for Class II areas.

The USEPA has established Class I area threshold concentration levels for NO₂, SO₂ and PM₁₀ as part of the PSD program. The Federal Land Managers (FLM) have also developed threshold levels for visibility and sulfur and nitrogen deposition at Class I areas. Furthermore, as part of the PSD policy, Class I and II area concentration have also been established. Only one Class I area is within 300 km of the project, Breton Wilderness Area, Louisiana. The facility has also included the other nearest Class I area, Caney Creek Wilderness, Arkansas. The allowable PSD increments and significant impact levels (SIL) concentration (ug/m³) threshold for Class I areas are shown below:

<u>Averaging Time</u>	<u>SIL</u>	<u>Allowable PSD Increment</u>	<u>Proposed SIL</u>	<u>Proposed PSD Increment</u>	<u>NAAQS*</u>
PM ₁₀ Annual	1	17	0.20	4.00	50
PM ₁₀ 24-Hour	5	30	0.30	8.00	150
SO ₂ Annual	1	20	0.10	2.00	80
SO ₂ 24-Hour	5	91	0.20	5.00	365
SO ₂ 3-Hour	25	512	1.00	25.00	1,300
NO ₂ Annual	1	25	0.10	2.50	100

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Refined CAMET/CALPUFF modeling was performed using three years monitoring data (2001, 2002, and 2003).

SO₂ Impacts: The maximum estimated annual average SO₂ impact at the Class I area, Breton Wilderness Area, receptor was 0.0023-ug/m³ during 2001 and 2003. This is 0.12% of the allowable increment and 2.3% of the single-source SIL threshold for annual SO₂. The maximum estimated 24-hour SO₂ impact at Breton Wilderness Area is 0.0565 ug/m³ in 2003. This is 1.13% of the allowable Class I area increment and 28.26% of the 24-hour SO₂ single-source SIL. The maximum 3-hour impact at the Breton Wilderness Area is 0.2033 ug/m³ (in 2002). This is 0.8% of the allowable Class I increment and 20.33% of the single-source 3-hour SO₂ SIL threshold.

PM₁₀ Impacts: The maximum estimated annual average PM₁₀ concentration at the Breton Wilderness was 0.0014 ug/m³ in 2001. This is 0.04% of the allowable Class I area increment and 0.7% of the single-source SIL threshold for annual average for PM₁₀. The maximum estimated 24-hour PM₁₀ impact at the Breton Wilderness Area is 0.033 ug/m³ in 2001. This is 0.42% of the allowable Class I area increment and 11.1% of the single-source SIL threshold.

NO₂ Impacts: the maximum estimated annual average NO₂ concentration at the Breton Wilderness was 0.00017 ug/m³ in 2001. This is 0.07% of the allowable Class area and 1.7% of the single-source SIL threshold.

SO₂ Impacts: The maximum estimated annual average SO₂ impact at the Class I area, Breton Wilderness Area, receptor was 0.0023 ug/m³ during 2001 and 2003. This is 0.12% of the allowable increment and 2.3% of the single-source SIL threshold for annual SO₂. The maximum estimated 24-hour SO₂ impact at Breton Wilderness Area is 0.0565 ug/m³ in 2003. This is 1.13% of the allowable Class I area increment and 28.26% of the 24-hour SO₂ single-source SIL. The maximum 3-hour impact at the Breton Wilderness Area is 0.2033 ug/m³ (in 2002). This is 0.8% of the allowable Class I increment and 20.33% of the single-source 3-hour SO₂ SIL threshold.

PM₁₀ Impacts: The maximum estimated annual average PM₁₀ concentration at the Breton Wilderness was 0.0014 ug/m³ in 2001. This is 0.04% of the allowable Class I area increment and 0.7% of the single-source SIL threshold for annual average for PM₁₀. The maximum estimated 24-hour PM₁₀ impact at the Breton Wilderness Area is 0.033 ug/m³ in 2001. This is 0.42% of the allowable Class I area increment and 11.1% of the single-source SIL

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threshold.

NO₂ Impacts: the maximum estimated annual average NO₂ concentration at the Breton Wilderness was 0.00017 ug/m³ in 2001. This is 0.07% of the allowable Class area and 1.7% of the single-source SIL threshold.

Based on the above referenced results the proposed HCU Turnaround Project would not cause any exceedances of allowable Class I area PSD increments or single-source SIL threshold for air quality at the Breton Wilderness or the Caney Creek Wilderness.

V. Credible Evidence

Notwithstanding any other provisions of any applicable rule or regulation or requirement of this permit that state specific methods that may be used to assess compliance with applicable requirements, pursuant to 40 CFR Part 70 and EPA's Credible Evidence Rule, 62 Fed. Reg. 8314 (Feb. 24, 1997), any credible evidence or information relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance or compliance test or procedure had been performed shall be considered for purposes of Title V compliance certifications. Furthermore, for purposes of establishing whether or not a person has violated or is in violation of any emissions limitation or standard or permit condition, nothing in this permit shall preclude the use, including the exclusive use, by any person of any such credible evidence or information:

VI. Public Notice

A notice requesting public comment on the permit was published in The Advocate, Baton Rouge, Louisiana and St. Charles Herald-Guide, Louisiana, on November **, 2007. Copies of the public notice were mailed out to individuals on the mailing list maintained by Office of Environmental Services on November **, 2007. The proposed permit was sent to EPA via e-mail on November **, 2007. All comments received shall be considered before a decision is made for this proposed permit.

VII. Effects on Ambient Air

Dispersion Model Used: AERMOD

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Pollutant	Time Period	Calculated Maximum Ground Level Concentration ($\mu\text{g}/\text{m}^3$)	National Air Quality Standard (NAAQS) ($\mu\text{g}/\text{m}^3$)	
PM10	Annual	30	50	
SO2	Annual	42	80	
NO2	Annual	99	100	

VIII. General Condition XVII Activities

Activity	Frequency	VOC Emissions			
		Lb/Activity	TPY	TPY	
Sampling*	486 events/month	-	0.31	-	-

* Emission routed to a control device Emission Point 4-84

IX. Insignificant Activities

ID No.:	Description	Citation
-	Portable Heaters (3 Heaters total 0.45 MM BTU/hr)	LAC 33:III.501.B.5.A.5
-	Laboratory Vent (501 scfm)	LAC 33:III.501.B.5.A.6
A3021	Process Vent Analyzers (16 scfh)	LAC 33:III.501.B.5.A.9
A3410	Process Vent Analyzers (3 scfh)	LAC 33:III.501.B.5.A.9
ID No.:	Description	Citation
A3409	Process Vent Analyzers (3 scfh)	LAC 33:III.501.B.5.A.9
A3408	Process Vent Analyzers (Neg. scfh)	LAC 33:III.501.B.5.A.9
A3020	Process Vent Analyzers (16 scfh)	LAC 33:III.501.B.5.A.9
A2953	Process Vent Analyzers (16 scfh)	LAC 33:III.501.B.5.A.9
TK-101	Tank (560 gal)	LAC 33:III.501.B.5.A.10
-	Nalco 1720 Storage Tank (400 gal)	LAC 33:III.501.B05.A.10
-	Catalyst Charging (Hydrotreating and Hydrocracking)	LAC 33:III.501B.5.A.11

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MOTIVA ENTERPRISES LLC
NORCO, ST. CHARLES PARISH, LOUISIANA**

X. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33:III.Chapter																
		5	9	11	13	15	2103	2111	2113	2121	2141	17	2301	29*	51*	52	56	59
UNF005	HCU, Hydrocracking Unit	1	1	1	1				1			1		1	1	1	1	1
EQT80	22-71, 1st Stage Reaction Heater (F-41)					1	1	1									2	
EQT81	23-71, 1st Stage Fractionation Reboiler (F-42)					1	1	1								2		
EQT82	24-71, 2 nd Stage Reaction Heater (F-43)					1	1	1								2		
EQT83	25-71, Main Fractionation Reboiler (F-44)					1	1	1								2		
EQT311	698-K, HCU Seal Oil Traps																	
EQT312	697-K, HCU Seal Oil Traps																	
EQT313	703, HCU Feed Surge Vent																	
EQT314	706, HCU Level Gas Purge																	
EQT315	707, HCU 1 st Stage Fractionator Vent															2		
EQT316	708, HCU 2 nd Stage Fractionator Vent															2		
EQT317	767, HCU T/A Enviro Project Stream															1		
EQT318	776, HCU Pump Seal Pot															2		
EQT319	777, HCU Pump Seal Pot															2		
EQT324	709, H2 Plant Product																	
EQT325	710, H2 Plant Product																	
EQT326	711, H2 Plant Product																	

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

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X. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33:III.Chapter																
		5	9	11	13	15	2103	2111	2113	2121	2115	2141	17	2301	29*	51*	52	56
EQT327	712, H2 Plant Product																	
EQT328	713, H2 Plant Product																	
EQT329	714, H2 Plant Product																	
EQT330	715, H2 Plant Product																	
FUG12	3011-95, Fugitive Emissions (Hydrocracker Unit)										1	1			1			
ARE21	3210-95, HCU Wastewater Emissions										1				1			

KEY TO MATRIX

- 1 - The regulations have applicable requirements which apply to this particular emission source.
 -The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
- 2 - The regulations have applicable requirements that apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criteria, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
- 3 - The regulations apply to this general type of emission source (i.e. vents, furnaces, and fugitives) but do not apply to this particular emission source.
 Blank – The regulations clearly do not apply to this type of emission source.
 LAC 33:III.Chapter 51 and Chapter 29 are State Only requirements.

* The regulations indicated above are State Only regulations.

▲ All LAC 33:III.Chapter 5 citations are federally enforceable including LAC 33:III.501.C.6 citations, except when the requirement found in the "Specific Requirements" report specifically states that the regulation is State Only.

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X. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60 NSPS										40 CFR 61						40 CFR 63 NESHAP						40 CFR					
		A	Db	Dc	J	Kb	XX	GGG	NNN	QQQ	A	J	M	V	FF	A	Q	CC	UUU	SDS	5Gs	68	82						
UNF005	HCU, Hydrocracking Unit	1									1	1	1	1								1	1						
EQT80	22-71, 1st Stage Reaction Heater		2	2	1																		2						
EQT81	23-71, 1st Stage Fractionation Reboiler		2	2	1																		2						
EQT82	24-71, 2 nd Stage Reaction Heater		2	2	1																		2						
EQT83	25-71, Main Fractionation Reboiler		2	2	1																		2						
EQT311	698-K, HCU Seal Oil Traps																												
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EQT315	707, HCU 1 st Stage Fractionator Vent																												
EQT316	708, HCU 2 nd Stage Fractionator Vent																												
EQT317	767, HCU T/A Enviro Project Stream																												
EQT318	776, HCU Pump Seal Pot																												

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NORCO, ST. CHARLES PARISH, LOUISIANA

X. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60 NSPS					40 CFR 61					40 CFR 63 NESHPAP					40 CFR			40 CFR			
		A	Db	Dc	J	Kb	XX	GGG	NNN	QQQ	A	J	M	V	FF	A	Q	CC	UUU	5Ds	5Gs	68	82
EQT319	777, HCU Pump Seal Pot																						
EQT324	709, H2 Plant Product																						
EQT325	710, H2 Plant Product																						
EQT326	711, H2 Plant Product																						
EQT327	712, H2 Plant Product																						
EQT328	713, H2 Plant Product																						
EQT329	714, H2 Plant Product																						
EQT330	715, H2 Plant Product																						
FUG12	3011-95, Fugitive Emissions HCU										1					2					1		
ARE21	3210-95, HCU Wastewater Emissions															2						1	

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

NORCO REFINERY, HYDROCRACKER UNIT
 AGENCY INTEREST NO. 1406
 MOTIVA ENTERPRISES LLC
 NORCO, ST. CHARLES PARISH, LOUISIANA

X. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60 NSPS						40 CFR 61						40 CFR 63 NESHAP						40 CFR					
		A	D _b	D _c	J	K _b	XX	G _{GG}	N _{NNN}	Q _{QQ}	A	J	M	V	F _{FF}	A	Q	C _{CC}	U _{UUU}	D _{5Ds}	S _{5Gs}	H ₆₈	S ₈₂		

KEY TO MATRIX

- 1 - The regulations have applicable requirements which apply to this particular emission source.
 - The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
- 2 - The regulations have applicable requirements which apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criteria, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
- 3 - The regulations apply to this general type of emission source (i.e. vents, furnaces, and fugitives) but do not apply to this particular emission source.
 Blank - The regulations clearly do not apply to this type of emission source.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

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XI. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Status	Citation	Explanation
GRP28 Unit Wide	Compliance Assurance Monitoring 40 CFR Part 64	Does not apply	40 CFR 64.42(a)(2)	No control device to be used to comply with any standards or limits
EQT80 22-71, 1st Stage Reaction Heater (F-41)	Emission Standards for Particulate Matter – Emission Limits	Does not apply	LAC 33.III.1301.B	Indirect heating
EQT81 23-71, 1st Stage Fractionation Reboiler (F-42)	Comprehensive Toxic Air Pollutant Emission Control Program – State Only	Does not apply	LAC 33.III.5105.B.J.a	Burns Group 1 virgin fossil fuel
EQT82 24-71, 2nd Stage Reaction Heater (F-43)	NSPS, Subpart D – Fossil-Fuel-Fired Steam Generators	Does not apply	40 CFR 60.40	Not a steam generating unit
EQT83 25-71, Main Fractionation Reboiler (F-44)	NSPS, Subpart Db and Dc Industrial-Commercial-Institutional Steam Generating Units	Does not apply	40 CFR 60.40b and 40c	Not a steam generating unit
FUG12 3011-95, Fugitive Emissions – HCU	NESHAP, Subpart J – Equipment Leaks of Benzene	Does not apply	40 CFR 61.111	Per definition not in benzene service (less than 10% benzene by wt.)
	NESHAP, Subpart V – Equipment Leaks from Fugitive Sources	Does not apply	40 CFR 60.241	Per definition not in VHAP or VOC service (less than 10% VHAP or VOC by wt.)
ARE21 3210-95, HCU Wastewater Emissions	NSPS, Subpart QQ – VOC Emissions from Petroleum Refinery Wastewater Systems	Does not apply	40 CFR 60.690(a)(1)	Not constructed, modified, or reconstructed after May 4, 1987.
				The above table provides explanation for both the exemption status or non-applicability of a source cited by 2 or 3 in the matrix presented in Section X of this permit

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- A. The term of this permit shall be five (5) years from date of issuance. An application for a renewal of this 40 CFR Part 70 permit shall be submitted to the administrative authority no later than six months prior to the permit expiration date. Should a complete permit application not be submitted six months prior to the permit expiration date, a facility's right to operate is terminated pursuant to 40 CFR Section 70.7(c)(ii). Operation may continue under the conditions of this permit during the period of the review of the application for renewal. [LAC 33:III.507.E.1, E.3, E.4, reference 40 CFR 70.6(a)(2)]
- B. The conditions of this permit are severable; and if any provision of this permit or the application of any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby. [Reference 40 CFR 70.6(a)(5)]
- C. Permittee shall comply with all conditions of the 40 CFR Part 70 permit. Any permit noncompliance constitutes a violation of the Clean Air Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. This permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. [LAC 33:III.507.B.2, reference 40 CFR 70.6(a)(6)(i) & (iii)]
- D. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. [Reference 40 CFR 70.6(a)(6)(ii)]
- E. This permit does not convey any property rights of any sort, or an exclusive privilege. [Reference 40 CFR 70.6(a)(6)(iv)]
- F. The permittee shall furnish to the permitting authority, within a reasonable time, any information that the permitting authority may request in writing to determine whether cause exists for modifying, revoking, and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the permitting authority copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality. A claim of confidentiality does not relieve the permittee of the requirement to provide the information. [LAC 33:III.507.B.2, 517.F, reference 40 CFR 70.6(a)(6)(v)]
- G. Permittee shall pay fees in accordance with LAC 33:III.Chapter 2 and 40 CFR Section 70.6(a)(7). [LAC 33:III.501.C.2, reference 40 CFR 70.6(a)(7)]
- H. Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the permitting authority or authorized representative to perform the following:
 1. enter upon the permittee's premises where a 40 CFR Part 70 source is located or emission-related activity is conducted, or where records must be kept under the conditions of the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(i)];

40 CFR PART 70 GENERAL CONDITIONS

2. have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(ii)];
3. inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(iii)]; and
4. as authorized by the Clean Air Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements. [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(iv)]

- I. All required monitoring data and supporting information shall be kept available for inspection at the facility or alternate location approved by the agency for a period of at least five (5) years from the date of the monitoring sample, measurement, report, or application. Supporting information includes calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and all reports required by the permit. [Reference 40 CFR 70.6(a)(3)(ii)(B)]
- J. Records of required monitoring shall include the following:
 1. the date, place as defined in the permit, and time of sampling or measurements;
 2. the date(s) analyses were performed;
 3. the company or entity that performed the analyses;
 4. the analytical techniques or methods used;
 5. the results of such analyses; and
 6. the operating conditions as existing at the time of sampling or measurement.[Reference 40 CFR 70.6(a)(3)(ii)(A)]
- K. Permittee shall submit at least semiannually, reports of any required monitoring, clearly identifying all instances of deviations from permitted monitoring requirements; certified by a responsible company official. For previously reported deviations, in lieu of attaching the individual deviation reports, the semiannual report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The semiannual reports shall be submitted to the Office of Environmental Compliance, Enforcement Division by March 31 for the preceding period encompassing July through December and September 30 for the preceding period encompassing January through June. Any quarterly deviation report required to be submitted by March 31 or September 30 in accordance with Part 70 General Condition R may be consolidated with the semi-annual reports required by this general condition as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. [LAC 33:III.507.H, reference 40 CFR 70.6(a)(3)(iii)(A)]
- L. The permittee shall submit at least semiannual reports on the status of compliance pursuant to 40 CFR Section 70.5 (c) (8) and a progress report on any applicable schedule of compliance pursuant to 40 CFR Section 70.6 (c) (4). [LAC 33:III.507.H.1, reference 40 CFR 70.6(c)(4)]
- M. Compliance certifications per LAC 33:III.507.H.5 shall be submitted to the Administrator as well as the permitting authority. For previously reported compliance deviations, in lieu of attaching the individual deviation reports, the annual report may clearly reference the

40 CFR PART 70 GENERAL CONDITIONS

communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The compliance certifications shall be submitted to the Office of Environmental Compliance, Enforcement Division by March 31 for the preceding calendar year. [LAC 33:III.507.H.5, reference 40 CFR 70.6(c)(5)(iv)]

- N. If the permittee seeks to reserve a claim of an affirmative defense as provided in LAC 33:III.507.J.2, the permittee shall, in addition to any emergency or upset provisions in any applicable regulation, notify the permitting authority within 2 working days of the time when emission limitations were exceeded due to the occurrence of an upset. In the event of an upset, as defined under LAC 33:III.507.J, which results in excess emissions, the permittee shall demonstrate through properly signed, contemporaneous operating logs, or other relevant evidence that: 1) an emergency occurred and the cause was identified; 2) the permitted facility was being operated properly at the time; and 3) during the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standard or requirement of the permit. [LAC 33:III.507.J.2, reference 40 CFR 70.6(g)(3)(iv) & (i-iii)]
- O. Permittee shall maintain emissions at a level less than or equal to that provided for under the allowances that the 40 CFR Part 70 source lawfully holds under Title IV of the Clean Air Act or the regulations promulgated thereunder. No permit revision shall be required for increases in emissions that are authorized by allowances acquired pursuant to the acid rain program, provided that such increases do not require a permit revision under any other applicable requirement. No limit shall be placed on the number of allowances held by the source. The source may not, however, use allowances as a defense to noncompliance with any other applicable requirement. Any such allowance shall be accounted for according to the procedures established in regulations promulgated under Title IV of the Clean Air Act. [Reference 40 CFR 70.6(a)(4)]
- P. Any permit issued pursuant to 40 CFR Part 70 may be subject to reopening prior to the expiration of the permit for any of the conditions specified in 40 CFR Section 70.7(f) or LAC 33:III.529. [LAC 33:III.529.A-B, reference 40 CFR 70.7(f)]
- Q. Permittee may request an administrative amendment to the permit to incorporate test results from compliance testing if the following criteria are met:
 - 1. the changes are a result of tests performed upon start-up of newly constructed, installed, or modified equipment or operations;
 - 2. increases in permitted emissions will not exceed five tons per year for any regulated pollutant;
 - 3. increases in permitted emissions of Louisiana toxic air pollutants or of federal hazardous air pollutants would not constitute a modification under LAC 33:III. Chapter 51 or under Section 112 (g) of the Clean Air Act;
 - 4. changes in emissions would not require new source review for prevention of significant deterioration or nonattainment and would not trigger the applicability of any federally applicable requirement;
 - 5. changes in emissions would not qualify as a significant modification; and
 - 6. the request is submitted no later than 12 months after commencing operation. [LAC 33:III.523.A, reference 40 CFR 70.7(d)]

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- R. Permittee shall submit prompt reports of all permit deviations as specified below to the Office of Environmental Compliance, Enforcement Division. All such reports shall be certified by a responsible official in accordance with 40 CFR 70.5(d).
1. A written report shall be submitted within 7 days of any emission in excess of permit requirements by an amount greater than the Reportable Quantity established for that pollutant in LAC 33.I.Chapter 39.
 2. A written report shall be submitted within 7 days of the initial occurrence of any emission in excess of permit requirements, regardless of the amount, where such emission occurs over a period of seven days or longer.
 3. A written report shall be submitted quarterly to address all permit deviations not included in paragraphs 1 or 2 above. Unless required by an applicable reporting requirement, a written report is not required during periods in which there is no deviation. The quarterly deviation reports submitted on March 31 and September 30 may be consolidated with the semi-annual reports required by Part 70 General Condition K as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. For previously reported permit deviations, in lieu of attaching the individual deviation reports, the quarterly report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The schedule for submittal of quarterly reports shall be no later than the dates specified below for any permit deviations occurring during the corresponding specified calendar quarter:
 - a. Report by June 30 to cover January through March
 - b. Report by September 30 to cover April through June
 - c. Report by December 31 to cover July through September
 - d. Report by March 31 to cover October through December
 4. Any written report submitted in advance of the timeframes specified above, in accordance with an applicable regulation, may serve to meet the reporting requirements of this condition provided such reports are certified in accordance with 40 CFR 70.5(d) and contain all information relevant to the permit deviation. Reporting under this condition does not relieve the permittee from the reporting requirements of any applicable regulation, including LAC 33.I.Chapter 39, LAC 33.III.Chapter 9, and LAC 33.III.5107. [Reference 40 CFR 70.6(a)(3)(iii)(B)]
- S. Permittee shall continue to comply with applicable requirements on a timely basis, and will meet on a timely basis applicable requirements that become effective during the permit term. [Reference 40 CFR 70.5(c)(8)(iii)]
- T. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B:
1. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156;

40 CFR PART 70 GENERAL CONDITIONS

2. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158;
 3. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161;
 4. Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with recordkeeping requirements pursuant to 40 CFR 82.166. ("MVAC-like appliance" as defined at 40 CFR 82.152);
 5. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to 40 CFR 82.156; and
 6. Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to 40 CFR 82.166. [Reference 40 CFR 82, Subpart F]
- U. If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR Part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners.
- The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant. [Reference 40 CFR 82, Subpart B]
- V. Data availability for continuous monitoring or monitoring to collect data at specific intervals: Except for monitoring malfunctions, associated repairs, and required quality assurance or control activities (including calibration checks and required zero and span adjustments), the permittee shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the emissions unit is operating. For purposes of reporting monitoring deviations under Part 70 General Conditions K and R, and unless otherwise provided for in the Specific Requirements (or Table 3) of this permit, the minimum degree of data availability shall be at least 90% (based on a monthly average) of the operating time of the emissions unit or activity being monitored. This condition does not apply to Leak Detection and Repair (LDAR) programs for fugitive emissions (e.g., 40 CFR 60 Subpart VV, 40 CFR 63 Subpart H).

LOUISIANA AIR EMISSION PERMIT GENERAL CONDITIONS

- I. This permit is issued on the basis of the emissions reported in the application for approval of emissions and in no way guarantees that the design scheme presented will be capable of controlling the emissions to the type and quantities stated. Failure to install, properly operate and/or maintain all proposed control measures and/or equipment as specified in the application and supplemental information shall be considered a violation of the permit and LAC 33:III.501. If the emissions are determined to be greater than those allowed by the permit (e.g. during the shakedown period for new or modified equipment) or if proposed control measures and/or equipment are not installed or do not perform according to design efficiency, an application to modify the permit must be submitted. All terms and conditions of this permit shall remain in effect unless and until revised by the permitting authority.
- II. The permittee is subject to all applicable provisions of the Louisiana Air Quality Regulations. Violation of the terms and conditions of the permit constitutes a violation of these regulations.
- III. The Emission Rates for Criteria Pollutants, Emission Rates for TAP/HAP & Other Pollutants, and Specific Requirements sections or, where included, Emission Inventory Questionnaire sheets establish the emission limitations and are a part of the permit. Any operating limitations are noted in the Specific Requirements or, where included, Tables 2 and 3 of the permit. The synopsis is based on the application and Emission Inventory Questionnaire dated July 16, 2007; as well as additional information dated August 30, 2007 and as of November 15, 2007.
- IV. This permit shall become invalid, for the sources not constructed, if:
 - A. Construction is not commenced, or binding agreements or contractual obligations to undertake a program of construction of the project are not entered into, within two (2) years (18 months for PSD permits) after issuance of this permit, or;
 - B. If construction is discontinued for a period of two (2) years (18 months for PSD permits) or more.The administrative authority may extend this time period upon a satisfactory showing that an extension is justified.
This provision does not apply to the time period between construction of the approved phases of a phased construction project. However, each phase must commence construction within two (2) years (18 months for PSD permits) of its projected and approved commencement date.
- V. The permittee shall submit semiannual reports of progress outlining the status of construction, noting any design changes, modifications or alterations in the construction schedule which have or may have an effect on the emission rates or ambient air quality levels. These reports shall continue to be submitted until such time as construction is certified as being complete. Furthermore, for any significant change in the design, prior approval shall be obtained from the Office of Environmental Services, Air Permits Division.

**LOUISIANA AIR EMISSION PERMIT
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- VI. The permittee shall notify the Department of Environmental Quality, Office of Environmental Services, Air Permits Division within ten (10) calendar days from the date that construction is certified as complete and the estimated date of start-up of operation. The appropriate Regional Office shall also be so notified within the same time frame.
- VII. Any emissions testing performed for purposes of demonstrating compliance with the limitations set forth in paragraph III shall be conducted in accordance with the methods described in the Specific Conditions and, where included, Tables 1, 2, 3, 4, and 5 of this permit. Any deviation from or modification of the methods used for testing shall have prior approval from the Office of Environmental Assessment, Air Quality Assessment Division.
- VIII. The emission testing described in paragraph VII above, or established in the specific conditions of this permit, shall be conducted within sixty (60) days after achieving normal production rate or after the end of the shakedown period, but in no event later than 180 days after initial start-up (or restart-up after modification). The Office of Environmental Assessment, Air Quality Assessment Division shall be notified at least (30) days prior to testing and shall be given the opportunity to conduct a pretest meeting and observe the emission testing. The test results shall be submitted to the Air Quality Assessment Division within sixty (60) days after the complete testing. As required by LAC 33:III.913, the permittee shall provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits.
- IX. The permittee shall, within 180 days after start-up and shakedown of each project or unit, report to the Office of Environmental Compliance, Enforcement Division any significant difference in operating emission rates as compared to those limitations specified in paragraph III. This report shall also include, but not be limited to, malfunctions and upsets. A permit modification shall be submitted, if necessary, as required in Condition I.
- X. The permittee shall retain records of all information resulting from monitoring activities and information indicating operating parameters as specified in the specific conditions of this permit for a minimum of at least five (5) years.
- XI. If for any reason the permittee does not comply with, or will not be able to comply with, the emission limitations specified in this permit, the permittee shall provide the Office of Environmental Compliance, Enforcement Division with a written report as specified below.
 - A. A written report shall be submitted within 7 days of any emission in excess of permit requirements by an amount greater than the Reportable Quantity established for that pollutant in LAC 33.I.Chapter 39.
 - B. A written report shall be submitted within 7 days of the initial occurrence of any emission in excess of permit requirements, regardless of the amount, where such emission occurs over a period of seven days or longer.
 - C. A written report shall be submitted quarterly to address all emission limitation exceedances not included in paragraphs A or B above. The schedule for submittal of

**LOUISIANA AIR EMISSION PERMIT
GENERAL CONDITIONS**

quarterly reports shall be no later than the dates specified below for any emission limitation exceedances occurring during the corresponding specified calendar quarter:

1. Report by June 30 to cover January through March
 2. Report by September 30 to cover April through June
 3. Report by December 31 to cover July through September
 4. Report by March 31 to cover October through December
- D. Each report submitted in accordance with this condition shall contain the following information:
1. Description of noncomplying emission(s);
 2. Cause of noncompliance;
 3. Anticipated time the noncompliance is expected to continue, or if corrected, the duration of the period of noncompliance;
 4. Steps taken by the permittee to reduce and eliminate the noncomplying emissions; and
 5. Steps taken by the permittee to prevent recurrences of the noncomplying emissions.
- E. Any written report submitted in advance of the timeframes specified above, in accordance with an applicable regulation, may serve to meet the reporting requirements of this condition provided all information specified above is included. For Part 70 sources, reports submitted in accordance with Part 70 General Condition R shall serve to meet the requirements of this condition provided all specified information is included. Reporting under this condition does not relieve the permittee from the reporting requirements of any applicable regulation, including LAC 33.I.Chapter 39, LAC 33.III.Chapter 9, and LAC 33.III.5107.
- XII. Permittee shall allow the authorized officers and employees of the Department of Environmental Quality, at all reasonable times and upon presentation of identification, to:
- A. Enter upon the permittee's premises where regulated facilities are located, regulated activities are conducted or where records required under this permit are kept;
 - B. Have access to and copy any records that are required to be kept under the terms and conditions of this permit, the Louisiana Air Quality Regulations, or the Act;
 - C. Inspect any facilities, equipment (including monitoring methods and an operation and maintenance inspection), or operations regulated under this permit; and
 - D. Sample or monitor, for the purpose of assuring compliance with this permit or as otherwise authorized by the Act or regulations adopted thereunder, any substances or parameters at any location.
- XIII. If samples are taken under Section XII.D. above, the officer or employee obtaining such samples shall give the owner, operator or agent in charge a receipt describing the sample obtained. If requested prior to leaving the premises, a portion of each sample equal in volume or weight to the portion retained shall be given to the owner, operator or agent in

**LOUISIANA AIR EMISSION PERMIT
GENERAL CONDITIONS**

- charge. If an analysis is made of such samples, a copy of the analysis shall be furnished promptly to the owner, operator or agency in charge.
- XIV. The permittee shall allow authorized officers and employees of the Department of Environmental Quality, upon presentation of identification, to enter upon the permittee's premises to investigate potential or alleged violations of the Act or the rules and regulations adopted thereunder. In such investigations, the permittee shall be notified at the time entrance is requested of the nature of the suspected violation. Inspections under this subsection shall be limited to the aspects of alleged violations. However, this shall not in any way preclude prosecution of all violations found.
- XV. The permittee shall comply with the reporting requirements specified under LAC 33:III.919 as well as notification requirements specified under LAC 33:III.927.
- XVI. In the event of any change in ownership of the source described in this permit, the permittee and the succeeding owner shall notify the Office of Environmental Services, Air Permits Division, within ninety (90) days after the event, to amend this permit.
- XVII. Very small emissions to the air resulting from routine operations, that are predictable, expected, periodic, and quantifiable and that are submitted by the permitted facility and approved by the Air Permits Division are considered authorized discharges. Approved activities are noted in the General Condition XVII Activities List of this permit. To be approved as an authorized discharge, these very small releases must:
1. Generally be less than 5 TPY
 2. Be less than the minimum emission rate (MER)
 3. Be scheduled daily, weekly, monthly, etc., or
 4. Be necessary prior to plant startup or after shutdown [line or compressor pressuring/depressuring for example]
- These releases are not included in the permit totals because they are small and will have an insignificant impact on air quality. This general condition does not authorize the maintenance of a nuisance, or a danger to public health and safety. The permitted facility must comply with all applicable requirements, including release reporting under LAC 33:I.3901.
- XVIII. Provisions of this permit may be appealed in writing pursuant to La. R.S. 30:2024(A) within 30 days from receipt of the permit. Only those provisions specifically appealed will be suspended by a request for hearing, unless the secretary or the assistant secretary elects to suspend other provisions as well. Construction cannot proceed except as specifically approved by the secretary or assistant secretary. A request for hearing must be sent to the following:

Attention: Office of the Secretary, Legal Services Division
 La. Dept. of Environmental Quality
 Post Office Box 4302

**LOUISIANA AIR EMISSION PERMIT
GENERAL CONDITIONS**

Baton Rouge, Louisiana 70821-4302

- XIX. Certain Part 70 general conditions may duplicate or conflict with state general conditions. To the extent that any Part 70 conditions conflict with state general conditions, then the Part 70 general conditions control. To the extent that any Part 70 general conditions duplicate any state general conditions, then such state and Part 70 provisions will be enforced as if there is only one condition rather than two conditions.

General Information

AI ID: 1406 Motiva Enterprises LLC - Norco Refinery
 Activity Number: PER20070018
 Permit Number: 2629-V2
 Air - Title V Regular Permit Major Mod

Also Known As:	ID	Name	User Group	Start Date
	2520-0002	Motiva Enterprises LLC - Norco Refinery	CDS Number	05-27-1993
	2520-0002	Motiva Enterprises LLC - Norco Refinery	Emission Inventory	03-03-2004
13-1299890		Federal Tax Id	Federal Tax ID	11-20-1999
72-0262490		Federal Tax ID #	Federal Tax ID	01-08-2001
76-0489497		Shell Norco Refining Co	Federal Tax ID	07-23-2002
76-0567102		Federal Tax Identification Number	Federal Tax ID	11-21-1999
LAD008186579		Motiva Enterprises LLC - Norco Refinery	Hazardous Waste Notification	08-18-1980
CA		GPRRA Baselines	Hazardous Waste Permitting	10-01-1997
		Inactive	Inactive & Abandoned Sites	11-01-1979
LA0003522		WPC File Number	LPDES Permit #	06-25-2003
WP0512		WPC State Permit Number	LW/DPS Permit #	06-25-2003
		Priority 1 Emergency Site	Priority 1 Emergency Site	07-18-2006
		Radioactive Material License	Radiation License Number	10-24-2001
		X-Ray Registration Number	Radiation X-ray Registration Number	11-21-1999
LA-2176-L01		Site ID #	Solid Waste Facility No.	08-17-2001
2176		Site ID #	Solid Waste Facility No.	08-17-2001
GD-089-0359		Site ID #	TEMPO Merge	01-27-2005
GPD-089-2265		Site ID #	TEMPO Merge	02-21-2001
100456		Shell Norco Refining Co	TEMPO Merge	02-21-2001
17667		Shell Oil Co - Norco Manufacturing Complex Refinery	TEMPO Merge	02-21-2001
19277		Motiva Enterprises - Norco Refinery	TEMPO Merge	04-29-2001
33125		Motiva Enterprises LLC/Shell Oil Co/Norco Refinery	TEMPO Merge	02-21-2001
34615		Motiva Enterprises LLC - Norco Refining Plant	TEMPO Merge	07-05-2001
37398		Shell Oil Co Norco	TEMPO Merge	05-02-2001
38782		Motiva Norco Refining Co	TEMPO Merge	02-21-2001
45019		Shell Oil Co - Norco Manufacturing Complex	TEMPO Merge	01-01-1991
47233		Shell Oil Co - Norco Refinery - Motiva LLC Norco Refinery	TEMPO Merge	07-13-2004
71559		Norco Refinery	Toxic Emissions Data Inventory #	09-10-1999
	2520-0002	Toxic Emissions Data Inventory #	Toxic Release Inventory	11-21-1999
		TRI #	UST FID #	
	70079MTVNR15536	Ust Facility Id Number	Wafer Permitting	
	45000831	WPC State Permit Number		
	WP0512			

Physical Location:

15536 River Rd
 (a portion of)
 Norco, LA 70079

Main FAX: 5044656360
 Main Phone: 5044657609

General Information

AI ID: 1406 Motiva Enterprises LLC - Norco Refinery

Activity Number: PER20070018

ДЕШЕВЛІ НУМЕРЫ 2529-А2

Air - Title V Regulator Permit Major Mod

P.O. Box 10
Narcos I 070030010

Mailing Address:

Location of Front Gate: 29° 59' 43" N 90° 34' 10" W

Related People:

Relationship

Phone (Type)

Mailing Address

Oliver Boyd	PO Box 10 Norco, LA 700790010	Water Permit Contact For
Oliver Boyd	PO Box 10 Norco, LA 700790010	Water Billing Party for
Keith Casey		Katrina Response Contact for
W. Caughman		Employed by
Herschel Craven		Accident Prevention Contact for
William Cupp	3433 Hwy 190 PMB 342 Mandeville, LA 70448	Employed by
William Cupp	3433 Hwy 190 PMB 342 Mandeville, LA 70448	Employed by
F. Foster		Underground Storage Tank Contact for
Fred Goodson	PO Box 10 Norco, LA 700790010	Employed by
Fred Goodson	PO Box 10 Norco, LA 700790010	Employed by
Fred Goodson	PO Box 10 Norco, LA 700790010	Employed by
Robert Hastings		Employed by
R. Jacoby		Employed by
R. Kuehn		Employed by
William Marquis	15536 River Rd Norco, LA 70079	Radiation Safety Officer for
William Marquis	15536 River Rd Norco, LA 70079	Accident Prevention Billing Party for
William Marquis	15536 River Rd Norco, LA 70079	Accident Prevention Billing Party for
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William Marquis	15536 River Rd Norco, LA 70079	Accident Prevention Billing Party for
William Marquis	15536 River Rd Norco, LA 70079	Accident Prevention Billing Party for
Kirk Menard		Radiation Safety Officer for
Philip Snyder		Employed by
R. Terrebonne		Employed by
Rene' Thouilion	PO Box 10 Norco, LA 70079	Emission Inventory Contact for
Rene' Thouilion	PO Box 10 Norco, LA 70079	TEDI Contact for
Rene' Thouilion	PO Box 10 Norco, LA 70079	Emission Inventory Contact for

General Information

AI ID: 1406 Motiva Enterprises LLC - Norco Refinery
Activity Number: PER20070018
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Air - Title V Regular Permit Major Mod

Related Organizations:	Name	Address	Phone (Type)	Relationship
Motiva Enterprises LLC	ATTN: Environmental Manager Norco, LA 70079	7132416147 (WP)	UST Billing Party for Owns	
Motiva Enterprises LLC	ATTN: Environmental Manager Norco, LA 70079	7132416147 (WP)	Air Billing Party for Radiation Registration Billing Party for Radiation License Billing Party for	
Motiva Enterprises LLC	PO Box 10 Norco, LA 700790010	5044657871 (WP)		
Shell Norco Refinery - Motiva	Invoice Processing Conivent, LA 70723			
Shell Norco Refinery - Motiva	15536 River Rd Norco, LA 70079			

Note: This report entitled "General Information" contains a summary of facility-level information contained in LDEQ's TEMPO database for this facility and is not considered a part of the permit. Please review the information contained in this document for accuracy and completeness. If any changes are required or if you have questions regarding this document, you may contact Mr. David Ferrand, Environmental Assistance Division, at (225) 219-3247 or email your changes to facupdate@la.gov.

INVENTORIES

AI ID: 1406 - Motiva Enterprises LLC - Norco Refinery

Activity Number: PER20070018

Permit Number: 2629-Y2

Air - Title V Regular Permit Major Mod

Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
Hydrocracking Unit						
EQT0021	3210-95 - HCU Wastewater Emissions		85.1 MM BTU/hr	66 MM BTU/hr		8780 hr/yr (All Year)
EQT0080	22-71 - 1st Stage Reaction Heater (F-41)		78.4 MM BTU/hr	45.1 MM BTU/hr		8780 hr/yr (All Year)
EQT0081	23-71 - 1st Stage Fractionation Reboiler (F-42)		64.5 MM BTU/hr	52 MM BTU/hr		8780 hr/yr (All Year)
EQT0082	24-71 - 2nd Stage Reaction Heater (F-43)		109.3 MM BTU/hr	69 MM BTU/hr		8780 hr/yr (All Year)
EQT0083	25-71 - Main Fractionation Reboiler (F-44)					(None Specified)
EQT0311	698-K - HCU Seal Oil Traps					(None Specified)
EQT0312	697-K - HCU Seal Oil Traps					(None Specified)
EQT0313	703 - HCU Feed Surge Vent					(None Specified)
EQT0314	706 - HCU Level Gas Purge					(None Specified)
EQT0315	707 - HCU 1st Stage Fractionator Vent					(None Specified)
EQT0316	708 - HCU 2nd Stage Fractionator Vent					(None Specified)
EQT0317	767 - HCU T/A Enviro Project Stream					(None Specified)
EQT0318	776 - HCU Pump Seal Pot					(None Specified)
EQT0319	777 - HCU Pump Seal Pot					(None Specified)
EQT0324	709 - H2 Plant Product					(None Specified)
EQT0325	710 - H2 Plant Product					(None Specified)
EQT0326	711 - H2 Plant Product					(None Specified)
EQT0327	712 - H2 Plant Product					(None Specified)
EQT0328	713 - H2 Plant Product					(None Specified)
EQT0329	714 - H2 Plant Product					(None Specified)
EQT0330	715 - H2 Plant Product					(None Specified)
FUG0012	3011-95 - HCU Fugitive Emissions					8780 hr/yr (All Year)

Stack Information:

ID	Description	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (°F)
Hydrocracking Unit							
EQT0080	22-71 - 1st Stage Reaction Heater (F-41)	27.6	46130	5.96		150	361
EQT0081	23-71 - 1st Stage Fractionation Reboiler (F-42)	21.3	32791	5.71		150	361
EQT0082	24-71 - 2nd Stage Reaction Heater (F-43)	25.6	32791	5.21		150	306
EQT0083	25-71 - Main Fractionation Reboiler (F-44)	20.2	46130	6.96		150	306

Relationships:

Subject Item Groups:	ID	Group Type	Group Description
UNF0005	Unit or Facility Wide	HCU - Hydrocracking Unit	

Group Membership:

INVENTORIES

AI ID: 1406 - Motiva Enterprises LLC - Norco Refinery
 Activity Number: PER20070018
 Permit Number: 2629-V2
 Air - Title V Regular Permit Major Mod

Group Membership:

NOTE: The UNF group relationship is not printed in this table. Every subject item is a member of the UNF group

Annual Maintenance Fee:

Fee Number	Air Contaminant Source	Multiplier	Units Of Measure
0720	Petroleum Refining (Rated Capacity)	1	1,000 BBL/Day

SIC Codes:

2911	Petroleum refining	AI1406
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EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 1406 - Motiva Enterprises LLC - Norco Refinery

Activity Number: PER20070018

Permit Number: 2629-V2

Air - Title V Regular Permit Major Mod

Subject Item	CO			NOx			PM10			SO2			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year												
Hydrocracking Unit															
ARE 0021 32-10-35	5.44	7.01	23.81	6.47	8.34	28.34	0.49	0.63	2.15	1.74	2.24	7.61	0.33	0.43	1.45
EQT 0080 22-71	3.70	6.43	16.20	4.42	7.68	19.36	0.32	0.55	1.38	1.17	2.04	5.14	0.23	0.39	0.99
EQT 0082 23-71	4.26	5.29	18.68	5.10	6.32	22.32	0.36	0.45	1.59	1.35	1.68	5.92	0.26	0.32	1.14
EQT 0083 24-71	5.66	8.96	24.78	6.76	10.71	29.62	0.48	0.77	2.12	1.79	2.84	7.86	0.35	0.55	1.51
FUG 0012 3011-35													22.92	34.40	100.40

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals unless otherwise noted in a footnote.

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 1406 - Motiva Enterprises LLC - Norco Refinery

Activity Number: PER20070018

Permit Number: 2629-V2

Air - Title V Regular Permit Major Mod

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
ARE 0021 3210-95	Benzene	< 0.001	< 0.001	0.004
	Ethyl benzene	0.001	0.001	0.004
	Naphthalene	< 0.001	< 0.001	0.004
	Toluene	0.02	0.02	0.09
	Xylene (mixed isomers)	0.01	0.01	0.06
EQT 0080 22-71	Formaldehyde	0.004	0.01	0.02
	n-Hexane	0.12	0.15	0.51
EQT 0081 23-71	Formaldehyde	0.003	0.01	0.02
	n-Hexane	0.08	0.14	0.35
EQT 0082 24-71	Formaldehyde	0.004	0.01	0.02
	n-Hexane	0.09	0.11	0.40
EQT 0083 25-71	Formaldehyde	0.004	0.01	0.02
	n-Hexane	0.12	0.19	0.53
FUG 0012 3011-95	2,2,4-Trimethylpentane	< 0.001	< 0.002	0.004
	Benzene	0.07	0.11	0.31
	Diethanolamine	0.20	0.30	0.89
	Ethyl benzene	0.09	0.14	0.39
	Hydrogen sulfide	0.09	0.13	0.40
	Naphthalene	0.05	0.08	0.23
	Polynuclear Aromatic Hydrocarbons	0.01	0.02	0.05
	Toluene	0.21	0.32	0.93
	Xylene (mixed isomers)	0.15	0.23	0.67
	n-Hexane	1.26	1.90	5.54
UNF 0005 HCU	2,2,4-Trimethylpentane			0.004
	Benzene			0.31
	Diethanolamine			0.89
	Ethyl benzene			0.39
	Formaldehyde			0.08
	Hydrogen sulfide			0.40
	Naphthalene			0.23
	Toluene			1.02
	Xylene (mixed isomers)			0.73
	n-Hexane			7.39

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 1406 - Motiva Enterprises LLC - Norco Refinery

Activity Number: PER20070018

Permit Number: 2629-V2

Air - Title V Regular Permit Major Mod

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals unless otherwise noted in a footnote.

SPECIFIC REQUIREMENTS

AI ID: 1406 - Motiva Enterprises LLC - Norco Refinery

Activity Number: PER20070018

Permit Number: 2629-V2

Air - Title V Regular Permit Major Mod

ARE0021 3210-95, HCU Wastewater Emissions

- 1 [40 CFR 61.348(a)(1)(ii)] Waste stream: Benzene < 10 ppmw (flow-weighted). Subpart FF. [40 CFR 61.348(a)(1)(ii)]
Which Months: All Year Statistical Basis: Annual average
Seals and/or openings: Equipment/operational data monitored by visual inspection/determination once initially and once every quarter thereafter to ensure that no cracks or gaps occur and that openings are closed and gasketed properly. Subpart FF. [40 CFR 61.348(e)(1)]
- 2 [40 CFR 61.348(e)(1)]
- 3 [40 CFR 61.348(e)(2)] Which Months: All Year Statistical Basis: None specified
Make first efforts at repair as soon as practicable, but not later than 15 calendar days after a broken seal or gasket or other problem is identified, except as provided in 40 CFR 61.350. Subpart FF. [40 CFR 61.348(e)(2)]
- 4 [40 CFR 61.348(e)] Seal any openings and keep closed at all times when waste is being treated, except during inspection and maintenance, except as specified in 40 CFR 61.348(e)(3). Subpart FF. [40 CFR 61.348(e)]
- 5 [40 CFR 61.354(a)(1)] Benzene monitored by the regulation's specified method(s) monthly. Measure the benzene concentration of the waste stream exiting the treatment process by collecting and analyzing one or more samples using the procedures specified in 40 CFR 61.355(c)(3). Subpart FF. [40 CFR 61.354(a)(1)]
Which Months: All Year Statistical Basis: None specified
Determine compliance with 40 CFR 61. Subpart FF using the test methods and procedures specified in 40 CFR 61.355(k). Subpart FF.
Equipment/operational data recordkeeping by electronic or hard copy continuously. Maintain records as specified in 40 CFR 61.356(a) through (n). Maintain each record in a readily accessible location at the facility site for a period not less than two years from the date the information is recorded unless otherwise specified. Subpart FF.
Comply with the requirements of 40 CFR 61.340 through 61.355 of 40 CFR 61, subpart FF, except as provided in 40 CFR 63.647(b). Subpart CC. [40 CFR 63.647(a)]
- 6 [40 CFR 61.355] Comply with the recordkeeping and reporting provisions in 40 CFR 61.356 and 61.357 of 40 CFR 61 Subpart FF, unless complying with the wastewater provisions specified in 40 CFR 63.640(o)(2)(ii). Subpart CC. [40 CFR 63.654(a)]
- 7 [40 CFR 61.356] Equip all rotary pumps and compressors handling volatile organic compounds having a true vapor pressure of 1.5 psia or greater at handling conditions with mechanical seals or other equivalent equipment.
- 8 [40 CFR 63.647(a)] Compliance with all the applicable requirements of NESHAP, 40 CFR 61, Subpart FF - National Emission Standard for Benzene Waste Operations is deemed compliance with the requirements of LAC 33.III.Chapter 51 - Comprehensive Toxic Air Pollutant Emission Control Program.
- 9 [40 CFR 63.654(a)]
- 10 [LAC 33.III.2111]
- 11 [LAC 33.III.Chapter 51]

EQT0080 22-71, 1st Stage Reaction Heater (F-41)

- 12 [40 CFR 60.104(a)(1)] Fuel gas: Hydrogen sulfide <= 0.1 gr/dscf (230 mg/dscm). Subpart J. [40 CFR 60.104(a)(1)]
Which Months: All Year Statistical Basis: None specified
Hydrogen sulfide monitored by continuous emission monitor (CEM) continuously. Monitor the H2S in fuel gases before being burned in any fuel gas combustion device. Subpart J. [40 CFR 60.105(a)(4)]
- 13 [40 CFR 60.105(a)(4)] Which Months: All Year Statistical Basis: None specified
Excess emissions periods be determined and reported based on 40 CFR 60.7(c) for all rolling 3-hour periods during which the average concentration of H2S continuous monitoring system under 40 CFR 105(a)(4) exceeds 0.1 gr/dscf. [40 CFR 60.105(e)(3)(ii)]
- 14 [40 CFR 60.105(e)(3)(ii)] Determine compliance with standards using the test methods and procedures specified in 40 CFR 60.106(a) through (k). Subpart J.
- 15 [40 CFR 60.106]
- 16 [40 CFR 60.662(a)] Introduce the vent stream into the flame zone if a process heater or boiler is used to comply. Subpart NNN. [40 CFR 60.662(a)]

SPECIFIC REQUIREMENTS

AI ID: 1406 - Motiva Enterprises LLC - Norco Refinery
 Activity Number: PER20070018
 Permit Number: 2629-V2
 Air - Title V Regular Permit Major Mod

EQT0080 22-71, 1st Stage Reaction Heater (F-41)

- 17 [40 CFR 60.662(a)] Total Organic Compounds (less methane and ethane) $\geq 98\%$ reduction by weight, or to a TOC (less methane and ethane) concentration of 20 ppmv, on a dry basis corrected to 3 percent oxygen, whichever is less stringent. Subpart NNN. [40 CFR 60.662(a)]
- 18 [40 CFR 60.663(c)(1)] Which Months: All Year Flow monitored by flow indicator hourly. Monitor the vent stream flow to the boiler or process heater. Install the flow indicator in the vent stream from each distillation unit within an affected facility at a point closest to the inlet of each boiler or process heater and before being joined with any other vent stream. Subpart NNN. [40 CFR 60.663(c)(1)]
- 19 [40 CFR 60.663(c)(1)] Which Months: All Year Statistical Basis: None specified Flow recordkeeping by electronic or hard copy hourly. Record the vent stream flow to the boiler or process heater at least once every hour for each affected facility. Subpart NNN. [40 CFR 60.663(c)(1)]
- 20 [40 CFR 60.663(c)(2)] Temperature monitored by temperature monitoring device continuously. Install the device in the firebox of the boiler or process heater. Ensure that the temperature device has an accuracy of +/- 1 percent of the temperature being monitored expressed in degrees Celsius or +/- 0.5 degrees C whichever is greater. Subpart NNN. [40 CFR 60.663(c)(2)]
- 21 [40 CFR 60.663(c)(2)] Which Months: All Year Statistical Basis: None specified Temperature recordkeeping by electronic or hard copy continuously. [40 CFR 60.663(c)(2)]
- 22 [40 CFR 60.663(d)] Operating time monitored by hour/time monitor continuously. Monitor the periods of operation. Subpart NNN. [40 CFR 60.663(d)]
- 23 [40 CFR 60.663(d)] Which Months: All Year Statistical Basis: None specified Operating time recordkeeping by electronic or hard copy as needed. Record the periods of operation. Make records readily available for inspection. Subpart NNN. [40 CFR 60.663(d)]
- 24 [40 CFR 60.664(a)] Run all affected facilities at full operating conditions and flow rates during any performance test intended to demonstrate compliance with 40 CFR 60.662. Subpart NNN. [40 CFR 60.664(a)]
- 25 [40 CFR 60.664(b)] Use the 40 CFR 60 appendix A methods listed in 40 CFR 60.664(b) through (h), except as provided under 40 CFR 60.60.8(b), as reference methods to determine compliance with the emission limit or percent reduction efficiency specified under 40 CFR 60.662(a). Subpart NNN. [40 CFR 60.664(b)]
- 26 [40 CFR 60.665(b)] For a boiler or process heater submit a report containing the information in 40 CFR 60.665(b)(2)(i). Subpart NNN. [40 CFR 60.665(b)]
- 27 [40 CFR 60.665(b)] Performance Test Data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain up-to-date, readily accessible records of the required compliance information listed in 40 CFR 60.665(b) through (j) as applicable measured during each performance test required under 40 CFR 60.8. Submit the same specified data in the reports of all subsequently required performance tests where either the emission control efficiency of a control device, outlet concentration of TOC, or the TEE index value of a vent stream from a recovery system is determined. Subpart NNN. [40 CFR 60.665(b)]
- 28 [LAC 33:III.1101.B] Opacity ≤ 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
- 29 [LAC 33:III.1313.C] Which Months: All Year Statistical Basis: None specified Total suspended particulate ≤ 0.6 lb/MMBTU of heat input.
- 30 [LAC 33:III.1503] Which Months: All Year Statistical Basis: None specified Shall comply with all the applicable requirements of 40 CFR 60, Subpart J in lieu of LAC 33:III. Chapter 15.

SPECIFIC REQUIREMENTS

AI ID: 1406 - Motiva Enterprises LLC - Norco Refinery
 Activity Number: PER20070018
 Permit Number: 2629-V2
 Air - Title V Regular Permit Major Mod

EQT0081 23-71, 1st Stage Fractionation Reboiler (F-42)

- 31 [40 CFR 60.104(a)(1)]
 Fuel gas: Hydrogen sulfide <= 0.1 gr/dscf (230 mg/dscm). Subpart J. [40 CFR 60.104(a)(1)]
 Which Months: All Year Statistical Basis: None specified
 Hydrogen sulfide monitored by continuous emission monitor (CEM) continuously. Monitor the H₂S in fuel gases before being burned in any fuel gas combustion device. Subpart J. [40 CFR 60.105(a)(4)]
- Which Months: All Year Statistical Basis: None specified
 Excess emissions periods be determined and reported based on 40 CFR 60.7(c) for all rolling 3-hour periods during which the average concentration of H₂S continuous monitoring system under 40 CFR 105(a)(4) exceeds 0.1 gr/dscf. [40 CFR 60.105(e)(3)(ii)]
 Determine compliance with standards using the test methods and procedures specified in 40 CFR 60.106(a) through (k). Subpart J.
- Introduce the vent stream into the flame zone if a process heater or boiler is used to comply. Subpart NNN. [40 CFR 60.662(a)]
- Total Organic Compounds (less methane and ethane) >= 98 % reduction by weight, or to a TOC (less methane and ethane) concentration of 20 ppmv, on a dry basis corrected to 3 percent oxygen, whichever is less stringent. Subpart NNN. [40 CFR 60.662(a)]
- Which Months: All Year Statistical Basis: None specified
 Flow monitored by flow indicator hourly. Monitor the vent stream flow to the boiler or process heater. Install the flow indicator in the vent stream from each distillation unit within an affected facility at a point closest to the inlet of each boiler or process heater and before being joined with any other vent stream. Subpart NNN. [40 CFR 60.663(c)(1)]
- Which Months: All Year Statistical Basis: None specified
 Flow recordkeeping by electronic or hard copy hourly. Record the vent stream flow to the boiler or process heater at least once every hour for each affected facility. Subpart NNN. [40 CFR 60.663(c)(1)]
- Temperature monitored by temperature monitoring device continuously. Install the device in the firebox of the boiler or process heater. Ensure that the temperature device has an accuracy of +/- 1 percent of the temperature being monitored expressed in degrees Celsius or +/- 0.5 degrees C whichever is greater. Subpart NNN. [40 CFR 60.663(c)(2)]
- Which Months: All Year Statistical Basis: None specified
 Temperature recordkeeping by electronic or hard copy continuously. [40 CFR 60.663(c)(2)]
- Operating time monitored by hour/time monitor continuously. Monitor the periods of operation. Subpart NNN. [40 CFR 60.663(d)]
- Which Months: All Year Statistical Basis: None specified
 Operating time recordkeeping by electronic or hard copy as needed. Record the periods of operation. Make records readily available for inspection. Subpart NNN. [40 CFR 60.663(d)]
- Run all affected facilities at full operating conditions and flow rates during any performance test intended to demonstrate compliance with 40 CFR 60.662. Subpart NNN. [40 CFR 60.664(a)]
- Use the 40 CFR 60 appendix A methods listed in 40 CFR 60.664(b) through (h), except as provided under 40 CFR 60.60.8(b), as reference methods to determine compliance with the emission limit or percent reduction efficiency specified under 40 CFR 60.662(a). Subpart NNN. [40 CFR 60.664(b)]
- For a boiler or process heater submit a report containing the information in 40 CFR 60.665(b)(2)(i). Subpart NNN. [40 CFR 60.665(b)]

SPECIFIC REQUIREMENTS

AI ID: 1406 - Motiva Enterprises LLC - Norco Refinery
 Activity Number: PER20070018
 Permit Number: 2629-V2
 Air - Title V Regular Permit Major Mod

EQT0081 23-71, 1st Stage Fractionation Reboiler (F-42)

- 46 [40 CFR 60.665(b)] Performance Test Data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain up-to-date, readily accessible records of the required compliance information listed in 40 CFR 60.665(b) through (j) as applicable measured during each performance test required under 40 CFR 60.8. Submit the same specified data in the reports of all subsequently required performance tests where either the emission control efficiency of a control device, outlet concentration of TOC, or the TRE index value of a vent stream from a recovery system is determined. Subpart NNN. [40 CFR 60.665(b)]
- 47 [LAC 33:III.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
- Which Months: All Year Statistical Basis: None specified
- Total suspended particulate <= 0.6 lb/MMBTU of heat input.
- Which Months: All Year Statistical Basis: None specified
- Shall comply with all the applicable requirements of 40 CFR 60. Subpart J in lieu of LAC 33:III.Chapter 15.

EQT0082 24-71, 2nd Stage Reaction Heater (F-43)

- 50 [40 CFR 60.104(a)(1)] Fuel gas: Hydrogen sulfide <= 0.1 gr/dscf (230 mg/dscm). Subpart J. [40 CFR 60.104(a)(1)]
- Which Months: All Year Statistical Basis: None specified
- Hydrogen sulfide monitored by continuous emission monitor (CEM) continuously. Monitor the H₂S in fuel gases before being burned in any fuel gas combustion device. Subpart J. [40 CFR 60.105(a)(4)]
- Which Months: All Year Statistical Basis: None specified
- Excess emissions periods be determined and reported based on 40 CFR 60.7(c) for all rolling 3-hour periods during which the average concentration of H₂S continuous monitoring system under 40 CFR 105(a)(4) exceeds 0.1 gr/dscf. [40 CFR 60.105(e)(3)(ii)]
- Determine compliance with standards using the test methods and procedures specified in 40 CFR 60.106(a) through (k). Subpart J. Introduce the vent stream into the flame zone if a process heater or boiler is used to comply. Subpart NNN. [40 CFR 60.662(a)]
- Total Organic Compounds (less methane and ethane) >= 98 % reduction by weight, or to a TOC (less methane and ethane) concentration of 20 ppmv, on a dry basis corrected to 3 percent oxygen, whichever is less stringent. Subpart NNN. [40 CFR 60.662(a)]
- Which Months: All Year Statistical Basis: None specified
- Flow monitored by flow indicator hourly. Monitor the vent stream flow to the boiler or process heater. Install the flow indicator in the vent stream from each distillation unit within an affected facility at a point closest to the inlet of each boiler or process heater and before being joined with any other vent stream. Subpart NNN. [40 CFR 60.663(c)(1)]
- Which Months: All Year Statistical Basis: None specified
- Flow recordkeeping by electronic or hard copy hourly. Record the vent stream flow to the boiler or process heater at least once every hour for each affected facility. Subpart NNN. [40 CFR 60.663(c)(1)]
- Temperature monitored by temperature monitoring device continuously. Install the device in the firebox of the boiler or process heater. Ensure that the temperature device has an accuracy of +/- 1 percent of the temperature being monitored expressed in degrees Celsius or +/- 0.5 degrees C whichever is greater. Subpart NNN. [40 CFR 60.663(c)(2)]
- Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 1406 - Motiva Enterprises LLC - Norco Refinery
Activity Number: PER20070018
Permit Number: 2629-V2
Air - Title V Regular Permit Major Mod

EQT0082 24-71, 2nd Stage Reaction Heater (F-43)

59 [40 CFR 60.663(c)(2)]
 60 [40 CFR 60.663(d)]

61 [40 CFR 60.663(d)]

62 [40 CFR 60.664(a)]

63 [40 CFR 60.664(b)]

64 [40 CFR 60.665(b)]

65 [40 CFR 60.665(b)]

66 [LAC 33:III.1101.B]

67 [LAC 33:III.1313.C]

68 [LAC 33:III.1503]

Temperature recordkeeping by electronic or hard copy continuously. [40 CFR 60.663(c)(2)]
 Operating time monitored by hour/time monitor continuously. Monitor the periods of operation. Subpart NNN. [40 CFR 60.663(d)]

Which Months: All Year Statistical Basis: None specified
 Operating time recordkeeping by electronic or hard copy as needed. Record the periods of operation. Make records readily available for inspection. Subpart NNN. [40 CFR 60.663(d)]

Run all affected facilities at full operating conditions and flow rates during any performance test intended to demonstrate compliance with 40 CFR 60.662. Subpart NNN. [40 CFR 60.664(a)]

Use the 40 CFR 60 appendix A methods listed in 40 CFR 60.664(h) through (h), except as provided under 40 CFR 60.608(b), as reference methods to determine compliance with the emission limit or percent reduction efficiency specified under 40 CFR 60.662(a). Subpart NNN. [40 CFR 60.664(b)]

For a boiler or process heater submit a report containing the information in 40 CFR 60.665(b)(2)(i). Subpart NNN. [40 CFR 60.665(b)]
 Performance Test Data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain up-to-date, readily accessible records of the required compliance information listed in 40 CFR 60.665(b) through (j) as applicable measured during each performance test required under 40 CFR 60.8. Submit the same specified data in the reports of all subsequently required performance tests where either the emission control efficiency of a control device, outlet concentration of TOC, or the TIE index value of a vent stream from a recovery system is determined. Subpart NNN. [40 CFR 60.665(b)]

Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lanceing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
 Which Months: All Year Statistical Basis: None specified
 Total suspended particulate <= 0.6 lb/MMBTU of heat input.

Which Months: All Year Statistical Basis: None specified

Shall comply with all the applicable requirements of 40 CFR 60, Subpart J in lieu of LAC 33:III.Chapter 15.

EQT0083 25-71, Main Fractionator Reboiler (F-44)

69 [40 CFR 60.104(a)(1)]

70 [40 CFR 60.105(a)(4)]

71 [40 CFR 60.105(e)(3)(ii)]

72 [40 CFR 60.106]

73 [40 CFR 60.662(a)]

Fuel gas: Hydrogen sulfide <= 0.1 gr/dscf (230 mg/dscm). Subpart J. [40 CFR 60.104(a)(1)]

Which Months: All Year Statistical Basis: None specified
 Hydrogen sulfide monitored by continuous emission monitor (CEM) continuously. Monitor the H2S in fuel gases before being burned in any fuel gas combustion device. Subpart J. [40 CFR 60.105(a)(4)]

Which Months: All Year Statistical Basis: None specified
 Excess emissions periods be determined and reported based on 40 CFR 60.7(c) for all rolling 3-hour periods during which the average concentration of H2S continuous monitoring system under 40 CFR 105(a)(4) exceeds 0.1 gr/dscf. [40 CFR 60.105(e)(3)(ii)]
 Determine compliance with standards using the test methods and procedures specified in 40 CFR 60.106(a) through (k). Subpart J.

Introduce the vent stream into the flame zone if a process heater or boiler is used to comply. Subpart NNN. [40 CFR 60.662(a)]

SPECIFIC REQUIREMENTS

AI ID: 1406 - Motiva Enterprises LLC - Norco Refinery
 Activity Number: PER20070018
 Permit Number: 2629-V2
 Air - Title V Regular Permit Major Mod

EQT0083 25-71, Main Fractionator Reboiler [F-44]

- Total Organic Compounds (less methane and ethane) $\geq 98\%$ reduction by weight, or to a TOC (less methane and ethane) concentration of 20 ppmv, on a dry basis corrected to 3 percent oxygen, whichever is less stringent. Subpart NNN. [40 CFR 60.662(a)]
- Which Months: All Year Statistical Basis: None specified
- Flow monitored by flow indicator hourly. Monitor the vent stream flow to the boiler or process heater. Install the flow indicator in the vent stream from each distillation unit within an affected facility at a point closest to the inlet of each boiler or process heater and before being joined with any other vent stream. Subpart NNN. [40 CFR 60.663(c)(1)]
- Which Months: All Year Statistical Basis: None specified
- Flow recordkeeping by electronic or hard copy hourly. Record the vent stream flow to the boiler or process heater at least once every hour for each affected facility. Subpart NNN. [40 CFR 60.663(c)(1)]
- Temperature monitored by temperature monitoring device continuously. Install the device in the firebox of the boiler or process heater. Ensure that the temperature device has an accuracy of +/- 1 percent of the temperature being monitored expressed in degrees Celsius or +/- 0.5 degrees C whichever is greater. Subpart NNN. [40 CFR 60.663(c)(2)]
- Which Months: All Year Statistical Basis: None specified
- Temperature recordkeeping by electronic or hard copy continuously. [40 CFR 60.663(c)(2)]
- Operating time monitored by hour/time monitor continuously. Monitor the periods of operation. Subpart NNN. [40 CFR 60.663(d)]
- Which Months: All Year Statistical Basis: None specified
- Operating time recordkeeping by electronic or hard copy as needed. Record the periods of operation. Make records readily available for inspection. Subpart NNN. [40 CFR 60.663(d)]
- Run all affected facilities at full operating conditions and flow rates during any performance test intended to demonstrate compliance with 40 CFR 60.662. Subpart NNN. [40 CFR 60.664(a)]
- Use the 40 CFR 60 appendix A methods listed in 40 CFR 60.664(b) through (h), except as provided under 40 CFR 60.60.8(b), as reference methods to determine compliance with the emission limit or percent reduction efficiency specified under 40 CFR 60.662(a). Subpart NNN. [40 CFR 60.664(b)]
- For a boiler or process heater submit a report containing the information in 40 CFR 60.665(b)(2)(i). Subpart NNN. [40 CFR 60.665(b)]
- Performance Test Data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain up-to-date, readily accessible records of the required compliance information listed in 40 CFR 60.665(b) through (j) as applicable measured during each performance test required under 40 CFR 60.8. Submit the same specified data in the reports of all subsequently required performance tests where either the emission control efficiency of a control device, outlet concentration of TOC, or the TRE index value of a vent stream from a recovery system is determined. Subpart NNN. [40 CFR 60.665(b)]
- Opacity ≤ 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
- Which Months: All Year Statistical Basis: None specified
- Total suspended particulate ≤ 0.6 lb/MMBTU of heat input.
- Which Months: All Year Statistical Basis: None specified
- Shall comply with all the applicable requirements of 40 CFR 60, Subpart J in lieu of LAC 33:III, Chapter 15.

SPECIFIC REQUIREMENTS

AI ID: 1406 - Motiva Enterprises LLC - Norco Refinery
 Activity Number: PER20070018
 Permit Number: 2629-V2
 Air - Title V Regular Permit Major Mod

EQT0311 698-K, HCU Seal Oil Traps

88 [LAC 33:III.501.C.6]

Emission routed to existing HCU Flare (Emission Point 4-84) permitted in Part 70 Permit No. 2913-V0 or current permit. Do not vent halogenated vent streams to a flare.

EQT0312 697-K, HCU Seal Oil Traps

89 [LAC 33:III.501.C.6]

Emission routed to existing HCU Flare (Emission Point 4-84) permitted in Part 70 Permit No. 2913-V0 or current permit. Do not vent halogenated vent streams to a flare.

EQT0313 703, HCU Feed Surge Vent

90 [LAC 33:III.501.C.6]

Emission routed to existing HCU Flare (Emission Point 4-84) permitted in Part 70 Permit No. 2913-V0 or current permit. Do not vent halogenated vent streams to a flare.

EQT0314 706, HCU Level Gas Purge

91 [LAC 33:III.501.C.6]

Emission routed to existing HCU Flare (Emission Point 4-84) permitted in Part 70 Permit No. 2913-V0 or current permit. Do not vent halogenated vent streams to a flare.

EQT0315 707, HCU 1st Stage Fractionator Vent

92 [LAC 33:III.501.C.6]

Emission routed to existing HCU Flare (Emission Point 4-84) permitted in Part 70 Permit No. 2913-V0 or current permit. Do not vent halogenated vent streams to a flare.

EQT0316 708, HCU 2nd Stage Fractionator Vent

93 [LAC 33:III.501.C.6]

Emission routed to existing HCU Flare (Emission Point 4-84) permitted in Part 70 Permit No. 2913-V0 or current permit. Do not vent halogenated vent streams to a flare.

EQT0317 767, HCU T/A Enviro Project Stream

94 [LAC 33:III.501.C.6]

Emission routed to existing HCU Flare (Emission Point 4-84) permitted in Part 70 Permit No. 2913-V0 or current permit. Do not vent halogenated vent streams to a flare.

EQT0318 776, HCU Pump Seal Pot

95 [LAC 33:III.501.C.6]

Emission routed to existing HCU Flare (Emission Point 4-84) permitted in Part 70 Permit No. 2913-V0 or current permit. Do not vent halogenated vent streams to a flare.

EQT0319 777, HCU Pump Seal Pot

SPECIFIC REQUIREMENTS

AI ID: 1406 - Motiva Enterprises LLC - Norco Refinery

Activity Number: PER20070018

Permit Number: 2629-V2

Air - Title V Regular Permit Major Mod

EQT0319 777, HCU Pump Seal Pot

96 [LAC 33:III.501.C.6]

Emission routed to existing HCU Flare (Emission Point 4-84) permitted in Part 70 Permit No. 2913-V0 or current permit. Do not vent halogenated vent streams to a flare.

EQT0324 709, H2 Plant Product

97 [LAC 33:III.501.C.6]

Emission routed to existing HCU Flare (Emission Point 4-84) permitted in Part 70 Permit No. 2913-V0 or current permit. Do not vent halogenated vent streams to a flare.

EQT0325_710, H2 Plant Product

98 [LAC 33:III.501.C.6]

Emission routed to existing HCU Flare (Emission Point 4-84) permitted in Part 70 Permit No. 2913-V0 or current permit. Do not vent halogenated vent streams to a flare.

EQT0326 711, H2 Plant Product

99 [LAC 33:III.501.C.6]

Emission routed to existing HCU Flare (Emission Point 4-84) permitted in Part 70 Permit No. 2913-V0 or current permit. Do not vent halogenated vent streams to a flare.

EQT0327 712, H2 Plant Product

100 [LAC 33:III.501.C.6]

Emission routed to existing HCU Flare (Emission Point 4-84) permitted in Part 70 Permit No. 2913-V0 or current permit. Do not vent halogenated vent streams to a flare.

EQT0328 713, H2 Plant Product

101 [LAC 33:III.501.C.6]

Emission routed to existing HCU Flare (Emission Point 4-84) permitted in Part 70 Permit No. 2913-V0 or current permit. Do not vent halogenated vent streams to a flare.

EQT0329 714, H2 Plant Product

102 [LAC 33:III.501.C.6]

Emission routed to existing HCU Flare (Emission Point 4-84) permitted in Part 70 Permit No. 2913-V0 or current permit. Do not vent halogenated vent streams to a flare.

EQT0330 715, H2 Plant Product

103 [LAC 33:III.501.C.6]

Emission routed to existing HCU Flare (Emission Point 4-84) permitted in Part 70 Permit No. 2913-V0 or current permit. Do not vent halogenated vent streams to a flare.

FUG0012 3011-95, HCU Fugitive Emissions

SPECIFIC REQUIREMENTS

AI ID: 1406 - Motiva Enterprises LLC - Norco Refinery
Activity Number: PER20070018
Permit Number: 2629-V2
Air - Title V Regular Permit Major Mod

FUG0012 3011-95, HCU Fugitive Emissions

- Permittee shall monitor valves and pumps in VOC service at leak detection limits of 500 ppm for valves and 10,000 ppm for pumps using the monitoring procedure of Louisiana Refinery MACT Determination for Refinery Equipment Leaks, 40 CFR 60, Subpart GGG and LAC 33:III.2121 which ever is more stringent. [40 CFR 60.590, LAC 33.III.2121]
- Comply with the provisions of 40 CFR 60 Subpart VV and 40 CFR 63.648(b) except as provided in 40 CFR 63.648(a)(1), (a)(2), and (c) through (i). Subpart CC. [40 CFR 63.648(a)]
- Maintain all records for a minimum of 5 years. Subpart CC. [40 CFR 63.648(h)]
- Comply with the recordkeeping and reporting provisions in 40 CFR 63.654(d)(1) through (d)(6). Subpart CC. [40 CFR 63.654(d)]
- Equip all rotary pumps and compressors handling volatile organic compounds having a true vapor pressure of 1.5 psia or greater at handling conditions with mechanical seals or other equivalent equipment.
- Repair according to LAC 33:III.2121.B.3 any regulated component observed leaking by sight, sound, or smell, regardless of the leak's concentration.
- Do not locate any valve, except safety pressure relief valves, valves on sample lines, valves on drain lines and valves that can be removed and replaced without a shutdown, at the end of a pipe or line containing VOC unless the end of such line is sealed with a second valve, a blind flange, a plug, or a cap. Remove such sealing devices only when the line is in use, for example, when a sample is being taken. When the line has been used and is subsequently resealed, close the upstream valve first, followed by the sealing device.
- Make every reasonable effort to repair a leaking component, as described in LAC 33:III.2121.B, within 15 days, except as provided.
- Pump seals: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 annually (one time per year). If a reading of 10,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2121.B.3.
- Which Months: All Year Statistical Basis: None specified
- Valves in liquid service: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 annually (one time per year). If a reading of 10,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2121.B.3.
- Which Months: All Year Statistical Basis: None specified
- Process drains: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 annually (one time per year). If a reading of 10,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2121.B.3.
- Which Months: All Year Statistical Basis: None specified
- Compressor seals: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 quarterly (four times per year). If a reading of 10,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2121.B.3.
- Which Months: All Year Statistical Basis: None specified
- Valves in gas service: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 quarterly (four times per year). If a reading of 10,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2121.B.3. Permittee may elect to comply with the alternate standards for valves in LAC 33:III.2121.D (skip period provisions).
- Which Months: All Year Statistical Basis: None specified
- Pressure relief valves in gas service: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 quarterly (four times per year). If a reading of 10,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2121.B.3.
- Which Months: All Year Statistical Basis: None specified
- Pumps: Seal or closure mechanism monitored by visual inspection/determination weekly (52 times per year).
- Which Months: All Year Statistical Basis: None specified
- 104 [40 CFR 60.590]
105 [40 CFR 63.648(a)]
106 [40 CFR 63.648(h)]
107 [40 CFR 63.654(d)]
108 [LAC 33:III.2111]
109 [LAC 33:III.2121.B.1]
110 [LAC 33:III.2121.B.2]
111 [LAC 33:III.2121.B.3]
112 [LAC 33:III.2121.C.1.a.i]
113 [LAC 33:III.2121.C.1.a.ii]
114 [LAC 33:III.2121.C.1.a.iii]
115 [LAC 33:III.2121.C.1.b.i]
116 [LAC 33:III.2121.C.1.b.ii]
117 [LAC 33:III.2121.C.1.b.iii]
118 [LAC 33:III.2121.C.1.c]

SPECIFIC REQUIREMENTS

AI ID: 1406 - Motiva Enterprises LLC - Norco Refinery
Activity Number: PER20070018
Permit Number: 2629-V2
Air - Title V Regular Permit Major Mod

FUG0012 3011-95, HCU Fugitive Emissions

- Pressure relief valves: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 within 24 hours after venting to the atmosphere. If a reading of 10,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2.121.B.3.
- Which Months: All Year Statistical Basis: None specified
- All components: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 upon each occurrence of a leak detected by sight, smell, or sound, unless electing to implement actions as specified in LAC 33:III.2.121.B.3.
- Which Months: All Year Statistical Basis: None specified
- Inaccessible valves: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 annually (at a minimum).
- Which Months: All Year Statistical Basis: None specified
- Unsafe-to-monitor valves: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 upon each occurrence of conditions allowing these valves to be monitored safely.
- Which Months: All Year Statistical Basis: None specified
- When a leak that cannot be repaired on-line and in-place is located, affix to the leaking component a weatherproof and readily visible tag bearing an identification number and the date the leak is located. Date and remove the tag after the leak is repaired.
- Equipment/operational data recordkeeping by survey log upon each occurrence of a leak. Include the leaking component information specified in LAC 33:III.2.121.E.2. Retain the survey log for two years after the latter date specified in LAC 33:III.2.121.E.2 and make said log available to DEQ upon request.
- Submit report: Due semiannually, by the 31st of January and July, to the Office of Environmental Assessment. Include the information specified in LAC 33:III.2.121.F.1 through 4 for each calendar quarter during the reporting period.
- A random two hundred connectors shall be monitored each year. The connector population shall consist of all one inch and larger connectors in gas/vapor or liquid VOTAP service. For process units with LDAR programs consolidated to the LA MACT, the connector population shall include all valve end flanges for those valves in gas/vapor or liquid VOC service.
- Attach a weatherproof and readily visible identification, marked with the equipment identification, to leaking equipment, as specified in Subsection Q.2 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994).
- Comply with the test methods and procedures in Section P, as specified in Subsections P.1, P.2, and P.4 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994).
- Connectors in gas/vapor service and in light liquid service \geq one inch in inside diameter size (have been welded completely around the circumference of the interface or physically removed and the pipe welded together): Equipment/operational data monitored by the regulations specified method(s) within three months after being welded. Check the integrity of the weld by monitoring according to the procedures in Section P, except that Subsection P.3 and P.5 do not apply. The weld can also be tested by using x-ray, acoustic monitoring, hydrotesting, or other applicable method, as specified in Subsection O.7 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Comply with this requirement instead of the requirements in Subsection O.1.
- Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 1406 - Motiva Enterprises LLC - Norco Refinery
 Activity Number: PER20070018
 Permit Number: 2629-V2
 Air - Title V Regular Permit Major Mod

FUG0012_3011-95, HCU Fugitive Emissions

- 130 [LAC 33:III.5109.A] Connectors in gas/vapor service and in light liquid service \geq one inch in inside diameter size (inaccessible or glass or glass-lined): Repair leaks as soon as practicable, but no later than 15 calendar days after detecting a leak by visual, audible, olfactory or other means as specified in Subsection O.11.b of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Make a first attempt at repair no later than 5 calendar days after the leak is detected, as specified in Subsection O.11.c of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Comply with this requirement instead of the monitoring requirements of Subsection O.2 through O.6, except that Subsection O.2.c does not apply, and the recordkeeping and reporting requirements.
- 131 [LAC 33:III.5109.A] Connectors in gas/vapor service and in light liquid service \geq one inch in inside diameter size (percent of leaking connectors ≤ 2): VOC, Total monitored by the regulation's specified method(s) annually, as specified in Subsection O.2 and O.4 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994), except that the leak definition is 500 ppm and Subsection O.2.c does not apply. Monitoring must be performed in the same calendar quarter as the previous monitoring. Monitor using the method specified in Section P, except that P.3 and P.5 do not apply. If an instrument reading ≥ 500 ppm is measured, a leak is detected. If a leak is detected, initiate repair provisions specified in Subsection O.9, except as provided in Section M.
- 132 [LAC 33:III.5109.A] Which Months: All Year Statistical Basis: None specified Connectors in gas/vapor service and in light liquid service \geq one inch in inside diameter size (percent of leaking connectors > 2): VOC, Total monitored by the regulation's specified method(s) quarterly until good performance is obtained or until four quarterly monitorings have been performed, as specified in Subsection O.2 and O.5 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994), except that Subsection O.2.c does not apply. If good performance has not been obtained after four quarters of monitoring, monitor the remaining unchecked connectors within three months of the last quarterly monitoring period, as specified in Subsection O.6 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). If monitoring of the remaining connectors indicates good performance, monitor in accordance with Subsection O.4. If monitoring of the remaining connectors indicates that good performance has not been obtained, monitor in accordance with Subsection O.5. Monitor using the method specified in Section P, except that Subsection P.3 and P.5 do not apply. If an instrument reading ≥ 500 ppm is measured, a leak is detected. If a leak is detected, initiate repair provisions specified in Subsection O.9, except as provided in Section M.
- 133 [LAC 33:III.5109.A] Which Months: All Year Statistical Basis: None specified Connectors in gas/vapor service and in light liquid service \geq one inch in inside diameter size (unsafe-to-monitor): Determine that the connector is unsafe to monitor because personnel would be exposed to an immediate danger as a result of complying with Subsections O.3 through O.6, except for Subsection O.2.c, as specified in Subsection O.10.a of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Comply with this requirement instead of the requirements in Subsection O.1.
- 134 [LAC 33:III.5109.A] Connectors in gas/vapor service and in light liquid service \geq one inch in inside diameter size (unsafe-to-monitor): VOC, Total monitored by the regulation's specified method(s) at the regulation's specified frequency. Maintain a written plan that requires monitoring as frequently as practicable during safe to monitor periods, as specified in Subsection O.10.b of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Monitor using the method in Section P, except for Subsection P.3 and P.5 which do not apply. Comply with this requirement instead of the requirements in Subsection O.1.
- 135 [LAC 33:III.5109.A] Which Months: All Year Statistical Basis: None specified Connectors in gas/vapor service and in light liquid service \geq one inch in inside diameter size: Calculate the percent leaking connectors using the equation in Subsection O.12 for use in determining the monitoring frequency, as specified in Subsection O.12 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994).

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- 136 [LAC 33:III.5109.A] Connectors in gas/vapor service and in liquid service \geq one inch in inside diameter size: Repair Leaks as soon as practicable, but not later than 15 calendar days after a leak is detected. Make a first attempt at repair no later than 5 calendar days after each leak is detected. If a leak is detected, monitor the for leaks within the first 90 days after its repair, as specified in Subsection O.9 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994).
- 137 [LAC 33:III.5109.A] Connectors in gas/vapor service \geq one inch in inside diameter size: VOC, Total monitored by the regulation's specified method(s) once initially, as specified in Subsections O.1 and O.2 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994), except that the leak definition is 500 ppm and Subsection O.2.c does not apply. Monitor using the method specified in Section P, except that Subsection P.3 and P.5 do not apply. If an instrument reading \geq 500 ppm is measured, a leak is detected. If a leak is detected, initiate repair provisions specified in Subsection O.9, except as provided in Section M.
- 138 [LAC 33:III.5109.A] Which Months: All Year Statistical Basis: None specified Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in Subsections Q.1 through Q.13, as applicable, except for Subsection Q.5, Q.8, and Q.11, as specified in Section Q of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). the leak definition is 500 ppm and the requirements of Subsection Q.12 will coincide with that done for valves and other components associated with connectors. Permittee shall comply with all the applicable requirements of LAC 33:III.Chapter 51 - Louisiana MACT Determination for Refinery Equipment Leaks dated July 26, 1994 for fugitive emissions. Permittee shall determine the percent leak rate of components by dividing the sum of components found leaking during current monitoring and components for which repair has been delayed by the total number of components monitored.
- 139 [LAC 33:III.5109.A] Permittee shall monitor closed vent systems in VOC service at the current leak detection limits of 500 ppm.
- 140 [LAC 33:III.5109.A] Pumps in liquid service: VOC, Total monitored by the regulations specified method(s) quarterly. Monitor to detect leaks by the methods specified in Subsection P.2, except as provided in Subsections C.4, D.4, D.5 and D.6, as specified in Paragraph D.1.a of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). If an instrument reading of 100000 ppm or greater is measured, a leak is detected. If a leak is detected, initiate repair provisions as specified in Subsection D.3.
- 141 [LAC 33:III.5109.A] Which Months: All Year Statistical Basis: None specified Repair equipment before the end of the next process unit shutdown, if repair is technically infeasible without a process unit shutdown, as specified in Subsection M.1 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994).
- 142 [LAC 33:III.5109.A] Submit report: Due quarterly starting three months after the initial report required in Subsection R. Paragraphs R.2.b.xvi through R.2.b.xxii, as specified in Subsection R.2 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). The reporting schedule will be that which has been established by existing LDAR programs. Subsections R.1, R.3 and R.4 do not apply.
- 143 [LAC 33:III.5109.A] The number of each type of components required to be monitored for each monitoring period under applicable leak detection and repair programs shall be reported to the LDEQ by inclusion with each periodic monitoring report. Fugitive emission piping components may be added to or removed from the permitted units, without triggering the need to apply for a permit modification, provided: A) Changes in components involve routine maintenance or are undertaken to address safety concerns, or involve small piping revisions with no associated emissions increases except from the fugitive emission components themselves; B) The changes do not involve any associated increase in the production rate or capacity, or tie in of new or modified process equipment other than the piping components; C) Actual emissions following the changes will not exceed the emission limits contained in this permit; and D) The components are promptly incorporated into any applicable leak detection and repair program.
- 144 [LAC 33:III.5109.A]
- 145 [LAC 33:III.5109.A]

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- 146 [40 CFR 60.] All affected facilities shall comply with all applicable provisions in 40 CFR 60 Subpart A.
- 147 [40 CFR 61.145(b)(1)] Provide DEQ with written notice of intention to demolish or renovate prior to performing activities to which 40 CFR 61 Subpart M applies.
- Delivery of the notice by U.S. Postal Service, commercial delivery service, or hand delivery is acceptable. Subpart M. [40 CFR 61.145(b)(1)]
- 148 [40 CFR 61.148] Do not install or reinstall on a facility component any insulating materials that contain commercial asbestos if the materials are either molded and friable or wet-applied and friable after drying. Subpart M.
- Benzene: Permittee shall comply with all the applicable requirements of the alternative requirements of paragraphs 40 CFR 61.342(c) and (d).
- The permittee shall manage and treat facility waste with a flow weighted annual average water content of less than 10 percent in accordance with 40 CFR 61.342(c)(1). The benzene quantity for the wastes described in 40 CFR 61.342(e)(2) shall be equal to or less than 6.6 tons per year, as determined in 40 CFR 61.355(k). Subpart FF. [40 CFR 61.342(e)]
- 150 [40 CFR 61.355(k)] Determine compliance with 40 CFR 61 Subpart FF using the test methods and procedures specified in 40 CFR 61.355(k). Subpart FF. [40 CFR 61.355(k)]
- Benzene: Permittee shall comply with all the applicable recordkeeping requirements as stated in 40 CFR 61.356 and all the applicable reporting requirements of 40 CFR 61.357. Subpart FF. [40 CFR 61.356(a)(4), 40 CFR 61.357]
- Equipment/operational data recordkeeping by electronic or hard copy continuously Maintain records as specified in 40 CFR 61.356(b)(4).
- Maintain each record in a readily accessible location at the facility site for a period not less than two years from the date the information is recorded unless otherwise specified. Subpart FF. [40 CFR 61.356(b)(4)]
- All affected facilities shall comply with all applicable provisions in 40 CFR 61 Subpart A.
- Submit Notification of the intention to conduct a performance test: Due at least 30 days before the performance test is scheduled. Subpart CC. [40 CFR 61.355(g)(1) through (g)(6)]
- Control emissions of organic HAPs to the level represented by the equation in 40 CFR 63.642(g). Subpart CC. [40 CFR 63.642(g)]
- Submit Periodic Report: Due no later than 60 days after the end of each 6-month period when any of the compliance exceptions specified in 40 CFR 63.654(g)(1) through (g)(6) occur. Include the information specified in 40 CFR 63.654(g)(1) through (g)(8). Subpart CC. [40 CFR 63.654(g)(1) through (g)(6)]
- Submit reports of startup, shutdown, and malfunction required by 40 CFR 63.10(d)(5). Subpart CC. [40 CFR 63.654(h)(1)]
- Submit the information specified in 40 CFR 63.654(h)(6)(i) through (iii), as applicable. Subpart CC. [40 CFR 63.654(h)(6)]
- Retain a record of all reported performance test results required under 40 CFR 63.654(f) and (g)(7) as well as a complete test report, as described in 40 CFR 63.654(f)(2)(ii) for each emission point tested. Subpart CC. [40 CFR 63.654(i)(2)]
- Retain all information required to be reported under 40 CFR 63.654(a) through (h) for five years. Subpart CC. [40 CFR 63.654(i)(4)]
- All affected facilities shall comply with all applicable provisions in 40 CFR 63 Subpart A.
- Submit Title V permit application for renewal: Due 6 months before permit expiration date. [40 CFR 70.5(a)(1)(iii)]
- Submit Title V monitoring results report: Due semiannually, by March 31st and September 30th for the preceding periods encompassing July through December and January through June, respectively. Submit reports to the Office of Environmental Compliance, Surveillance Division.
- Certify reports by a responsible company official. Clearly identify all instances of deviations from permitted monitoring requirements. For previously reported deviations, in lieu of attaching the individual deviation reports, clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. [40 CFR 70.6(a)(3)(iii)(A)]

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- 164 [40 CFR 70.6(a)(3)(iii)(B)] Submit Title V excess emissions report: Due quarterly, by June 30, September 30, December 31, March 31. Submit reports of all permit deviations to the Office of Environmental Compliance, Surveillance Division. Certify all reports by a responsible official in accordance with 40 CFR 70.5(d). The reports submitted on March 31 and September 30 may be consolidated with the semi-annual reports required by 40 CFR 70.6(a)(3)(iii)(A) as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. Unless required by an applicable reporting requirement, a written report is not required during periods in which there is no deviation. [40 CFR 70.6(a)(3)(iii)(B)]
- 165 [40 CFR 70.6(c)(5)(iv)] Submit Title V compliance certification: Due annually, by the 31st of March. Submit to the Office of Environmental Compliance, Surveillance Division. [40 CFR 70.6(c)(5)(iv)]
- 166 [40 CFR 82. Subpart F] Comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B.
- 167 [LAC 33:III.1103] Emissions of smoke which pass onto or across a public road and create a traffic hazard by impairment of visibility as defined in LAC 33:III.111 or intensify an existing traffic hazard condition are prohibited.
- 168 [LAC 33:III.1109.B] Outdoor burning of waste material or other combustible material is prohibited.
- 169 [LAC 33:III.1303.B] Emissions of particulate matter which pass onto or across a public road and create a traffic hazard by impairment of visibility or intensify an existing traffic hazard condition are prohibited.
- 170 [LAC 33:III.1305] Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.A.1-7.
- 171 [LAC 33:III.1503] Shall comply with all the applicable requirements of 40 CFR 60, Subpart J in lieu of LAC 33:III. Chapter 15.
- 172 [LAC 33:III.2111] Equip all rotary pumps and compressors handling volatile organic compounds having a true vapor pressure of 1.5 psia or greater at handling conditions with mechanical seals or other equivalent equipment.
- 173 [LAC 33:III.2113.A] Maintain best practical housekeeping and maintenance practices at the highest possible standards to reduce the quantity of organic compounds emissions. Good housekeeping shall include, but not be limited to, the practices listed in LAC 33:III.2113.A.1-5.
- 174 [LAC 33:III.2141] VOC emissions from the petroleum refinery process unit turnarounds shall be controlled by pumping the liquid contents to storage and depressurizing units to 5 psig or below before venting to the atmosphere. This shall be accomplished as per the requirements of LAC 33:III.2115.A, B, and F. Records shall be kept as per the requirements of LAC 33:III.2115.I, J, and K.
- 175 [LAC 33:III.219] Failure to pay the prescribed application fee or annual fee as provided herein, within 90 days after the due date, will constitute a violation of these regulations and shall subject the person to applicable enforcement actions under the Louisiana Environmental Quality Act including, but not limited to, revocation or suspension of the applicable permit, license, registration, or variance.
- 176 [LAC 33:III.2901.D] Discharges of odorous substances at or beyond property lines which cause a perceived odor intensity of six or greater on the specified eight point butanol scale as determined by Method 41 of LAC 33:III.2901.G are prohibited.
- 177 [LAC 33:III.2901.F] If requested to monitor for odor intensity, take and transport samples in a manner which minimizes alteration of the samples either by contamination or loss of material. Evaluate all samples as soon after collection as possible in accordance with the procedures set forth in LAC 33:III.2901.G.

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178 [LAC 33:III.507.B.2]

No Part 70 source may operate after the time that the owner or operator of such source is required to submit a permit application under Subsection C of this Section, unless an application has been submitted by the submittal deadline and such application provides information addressing all applicable sections of the application form and has been certified as complete in accordance with LAC 33:III.517.B.1. No Part 70 source may operate after the deadline provided for supplying additional information requested by the permitting authority under LAC 33:III.519, unless such additional information has been submitted within the time specified by the permitting authority. Permits issued to the Part 70 source under this Section shall include the elements required by 40 CFR 70.6. The Louisiana Department of Environmental Quality hereby adopts and incorporates by reference the provisions of 40 CFR 70.6(a), as in effect on July 21, 1992. Upon issuance of the permit, the Part 70 source shall be operated in compliance with all terms and conditions of the permit. Noncompliance with any federally applicable term or condition of the permit shall constitute a violation of the Clean Air Act and shall be grounds for enforcement action; for permit termination, revocation and reissuance, or revision; or for denial of a permit renewal application.

Any permit application to renew an existing permit shall be submitted at least six months prior to the date of permit expiration, or at such earlier time as may be required by the existing permit or approved by the permitting authority. In no event shall the application for permit renewal be submitted more than 18 months before the date of permit expiration.

No major stationary source or major modification to which the requirements of this Part apply shall begin actual construction without a permit issued under this Section.

A major stationary source or major modification shall meet each applicable emissions limitation under the Louisiana State Implementation Plan and each applicable emissions standard and standard of performance under the Louisiana New Source Performance Standards (LNSPS) and Louisiana Emission Standards for Hazardous Air Pollutants (LESHAP) and Sections 111 and 112 of the Clean Air Act.

A major modification shall apply best available control technology for each pollutant subject to regulation under this Section which would result in a significant net emissions increase at the source. This requirement applies to each proposed emissions unit at which a net emissions increase in the pollutant would occur as a result of a physical change or change in the method of operation in the unit.

For phased construction projects, the determination of best available control technology shall be reviewed and modified as appropriate at the latest reasonable time which occurs no later than 18 months prior to commencement of construction of each independent phase of the project. At such time, the owner or operator of the applicable stationary source may be required to demonstrate the adequacy of any previous determination of best available control technology for the source.

Do not construct or modify any stationary source subject to any standard set forth in LAC 33:III.Chapter 51.Subchapter A without first obtaining written authorization from DEQ in accordance with LAC 33:III.Chapter 51.Subchapter A, after the effective date of the standard.

Do not cause a violation of any ambient air standard listed in LAC 33:III.Table 51.2, unless operating in accordance with LAC 33:III.5109.

Do not build, erect, install, or use any article, machine, equipment, process, or method, the use of which conceals an emission that would otherwise constitute a violation of an applicable standard.

Do not fail to keep records, notify, report or revise reports as required under LAC 33:III.Chapter 51.Subchapter A.

Submit Annual Emissions Report (TEDI); Due annually, by the 1st of July, to the Office of Environmental Assessment in a format specified by DEQ. Identify the quantity of emissions in the previous calendar year for any toxic air pollutant listed in Table 51.1 or Table 51.3.

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- 189 [LAC 33:III.5107.A.3] Include a certification statement with initial and subsequent annual emission reports and revisions to any emission report to attest that the information contained in the emission report is true, accurate, and complete, and signed by a responsible official, as defined in LAC 33:III.502. Include the full name of the responsible official, title, signature, date of signature and phone number of the responsible official. The certification statement shall read: "I certify, under penalty of perjury, that the emissions data provided is accurate to the best of my knowledge, information, and belief, and I understand that submitting false or misleading information will expose me to prosecution under state regulations"
- 190 [LAC 33:III.5107.B.1] Submit notification: Due to the Department of Public Safety 24-hour Louisiana Emergency Hazardous Materials Hotline at (225) 925-6595 immediately, but no later than 1 hour, after any discharge of a toxic air pollutant into the atmosphere which results or threatens to result in an emergency condition (a condition which could reasonably be expected to endanger the health and safety of the public, cause significant adverse impact to the land, water or air environment, or cause severe damage to property).
- 191 [LAC 33:III.5107.B.2] Submit notification: Due to SPOC, except as provided in LAC 33:III.5107.B.6, no later than 24 hours after the beginning of any unauthorized discharge into the atmosphere of a toxic air pollutant as a result of bypassing an emission control device, when the emission control bypass was not the result of an upset, and the quantity of the unauthorized bypass is greater than or equal to the lower of the Minimum Emission Rate (MER) in LAC 33:III.5112, Table 51.1, or a reportable quantity (RQ) in LAC 33:III.3931, or the quantity of the unauthorized bypass is greater than one pound and there is no MER or RQ for the substance in question. Submit notification in the manner provided in LAC 33:III.3923.
- 192 [LAC 33:III.5107.B.3] Submit notification: Due to SPOC immediately, but in no case later than 24 hours after any unauthorized discharge of a toxic air pollutant into the atmosphere that does not cause an emergency condition, the rate or quantity of which is in excess of that allowed by permit, compliance schedule, or variance, or for upset events that exceed the reportable quantity in LAC 33:III.3931, except as provided in LAC 33:III.5107.B.6. Submit notification in the manner provided in LAC 33:III.3923.
- 193 [LAC 33:III.5107.B.4] Submit written report: Due within seven calendar days of learning of any such discharge or equipment bypass as referred to in LAC 33:III.5107.B.1 through 3. Submit report to SPOC by certified mail. Include the information specified in LAC 33:III.5107.B.4.a.i through viii.
- 194 [LAC 33:III.5107.B.5] Report all discharges to the atmosphere of a toxic air pollutant from a safety relief device, a line or vessel rupture, a sudden equipment failure, or a bypass of an emission control device, regardless of quantity, in the annual emissions report and where otherwise specified. Include the identity of the source, the date and time of the discharge, and the approximate total loss during the discharge.
- 195 [LAC 33:III.5109.B.3] Achieve compliance with ambient air standards unless it can be demonstrated to the satisfaction of DEQ that compliance with an ambient air standard would be economically infeasible; that emissions could not reasonably be expected to pose a threat to public health or the environment; and that emissions would be controlled to a level that is Maximum Achievable Control Technology.
- 196 [LAC 33:III.5109.B] Determine the status of compliance, beyond the property line, with applicable ambient air standards listed in LAC 33:III.5112.Table 51.2.
- 197 [LAC 33:III.5109.C] Develop a standard operating procedure (SOP) within 120 days after achieving or demonstrating compliance with the standards specified in LAC 33:III.Chapter 51. Detail in the SOP all operating procedures or parameters established to ensure that compliance with the applicable standards is maintained and address operating procedures for any monitoring system in place, specifying procedures to ensure compliance with LAC 33:III.5113.C.5. Make a written copy of the SOP available on site or at an alternate approved location for inspection by DEQ. Provide a copy of the SOP within 30 days upon request by the department.
- 198 [LAC 33:III.5111.A.1] Obtain a Louisiana Air Permit in accordance with LAC 33:III.5111.B and C and in accordance with LAC 33:III.1701, before commencement of the construction of any new source.

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- 199 [LAC 33:III.5111.A.2.] Obtain a permit modification in accordance with LAC 33:III.5111.B and C before commencement of any modification not specified in a compliance plan submitted under LAC 33:III.5109.D, if the modification will result in an increase in emissions of any toxic air pollutant or will create a new point source.
- 200 [LAC 33:III.5111.A] Do not commence construction or modification of any major source without first obtaining written authorization from DEQ, as specified.
- 201 [LAC 33:III.5113.B.1] Ensure that all testing done to determine the emission of toxic air pollutants, upon request by the department, is conducted by qualified personnel.
- 202 [LAC 33:III.5113.B.3] Provide necessary sampling and testing facilities, exclusive of instruments and sensing devices, as needed to properly determine the emission of toxic air pollutants, upon request of the department.
- 203 [LAC 33:III.5113.B.4] Provide emission testing facilities as specified in LAC 33:III.5113.B.4 through e.
- 204 [LAC 33:III.5113.B.5] Analyze samples and determine emissions within 30 days after each emission test has been completed.
- 205 [LAC 33:III.5113.B.5] Submit certified letter: Due to the Office of Environmental Assessment before the close of business on the 45th day following the completion of the emission test. Report the determinations of the emission test.
- 206 [LAC 33:III.5113.B.6] Equipment/operational data recordkeeping by electronic or hard copy upon each occurrence of emissions testing. Retain records of emission test results and other data needed to determine emissions. Retained records at the source, or at an alternate location approved by DEQ for a minimum of two years, and make available upon request for inspection by DEQ.
- 207 [LAC 33:III.5113.B.7] Submit notification: Due to the Office of Environmental Assessment at least 30 days before the emission test. Submit notification of emission test to allow DEQ the opportunity to have an observer present during the test.
- 208 [LAC 33:III.5113.C.1] Maintain and operate each monitoring system in a manner consistent with good air pollution control practices for minimizing emissions. Repair or adjust any breakdown or malfunction of the monitoring system as soon as practicable after its occurrence.
- 209 [LAC 33:III.5113.C.2] Conduct performance evaluation of the monitoring system when required at any other time requested by DEQ.
- 210 [LAC 33:III.5113.C.2] Submit notification in writing: Due to the Office of Environmental Assessment at least 30 days before a performance evaluation of the monitoring system is to begin.
- 211 [LAC 33:III.5113.C.2] Submit performance evaluation report: Due to the Office of Environmental Assessment within 60 days of the monitoring system performance evaluation.
- 212 [LAC 33:III.5113.C.3] Install a monitoring system on each effluent or on the combined effluent, when monitoring is required and the effluents from a single source, or from two or more sources subject to the same emission standards, are combined before being released to the atmosphere. If two or more sources are not subject to the same emission standards, install a separate monitoring system on each effluent, unless otherwise specified. If the applicable standard is a mass emission standard and the effluent from one source is released to the atmosphere through more than one point, install a monitoring system at each emission point unless DEQ approves the installation of fewer systems.
- 213 [LAC 33:III.5113.C.5.a] Evaluate the performance of continuous monitoring systems, upon request by DEQ, in accordance with the requirements and procedures contained in the applicable performance specification of 40 CFR Part 60, appendix B.
- 214 [LAC 33:III.5113.C.5.a] Submit report: Due to DEQ within 60 days of the performance evaluation of the CMS, if requested. Furnish DEQ with two or more copies of a written report of the test results within 60 days.
- 215 [LAC 33:III.5113.C.5.d] Install all continuous monitoring systems or monitoring devices to make representative measurements under variable process or operating parameters, if required to install a CMS.

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216 [LAC 33:III.5113.C.5.e]
 217 [LAC 33:III.5113.C.5]

Collect and reduce all data as specified in LAC 33:III.5113.C.5.e.i and ii, if required to install a CMS.

Submit plan: Due to the Office of Environmental Assessment within 90 days after DEQ requests either the initial plan or an updated plan, if required by DEQ to install a continuous monitoring system. Submit for approval a plan describing the affected sources and the methods for ensuring compliance with the continuous monitoring system.

Maintain records of monitoring data, monitoring system calibration checks, and the occurrence and duration of any period during which the monitoring system is malfunctioning or inoperative. Maintain these records at the source, or at an alternative location approved by DEQ, for a minimum of three years and make available, upon request, for inspection by DEQ.

Submit notification: Due to the permitting authority prior to the initiation of any project which will result in emission reductions. Include in the notification description of the proposed action, a location map, a description of the composition of air contaminants involved, the rate and temperature of the emissions, the identity of the sources involved and the change in emissions. Make any appropriate permit revision reflecting the emission reduction no later than 180 days after commencement of operation and in accordance with the procedures of LAC 33:III.Chapter 5. An individual or company contracted to perform a demolition or renovation activity which disturbs RACM must be recognized by the Licensing Board for Contractors to perform asbestos abatement, and shall meet the requirements of LAC 33:III.5151.F.2 and F.3 for each demolition or renovation activity.

Submit applications for permits in accordance with forms and guidance provided by the DEQ. At a minimum, each permit application submitted under LAC 33:III.Chapter 5 shall contain the information specified in LAC 33:III.5117.D, subparagraphs 1-18.

Submit change of ownership notification in accordance with LAC 33:III.Chapter 19.

Submit permit modification application: Due within 45 days of obtaining relevant test results. The permit modification or amendment shall include all information necessary to process the request, and is required if testing demonstrates that the terms and conditions of the existing permit are inappropriate or inaccurate.

Activate the preplanned abatement strategy listed in LAC 33:III.5611.Table 5 when the administrative authority declares an Air Pollution Alert.

Activate the preplanned strategy listed in LAC 33:III.5611.Table 6 when the administrative authority declares an Air Pollution Warning.

Activate the preplanned abatement strategy listed in LAC 33:III.5611.Table 7 when the administrative authority declares an Air Pollution Emergency.

Prepare standby plans for the reduction of emissions during periods of Air Pollution Alert, Air Pollution Warning and Air Pollution Emergency.

Design standby plans to reduce or eliminate emissions in accordance with the objectives as set forth in LAC 33:III.5611.Tables 5, 6, and 7.

Submit standby plan for the reduction or elimination of emissions during an Air Pollution Alert, Air Pollution Warning, or Air Pollution Emergency.

During an Air Pollution Alert, Air Pollution Warning or Air Pollution Emergency, make the standby plan available on the premises to any person authorized by the department to enforce these regulations.

Comply with the provisions in 40 CFR 68, except as specified in LAC 33:III.5901.

Identify hazards that may result from accidental releases of the substances listed in 40 CFR 68.130, Table 59.0 of LAC 33:III.5907, or Table 59.1 of LAC 33:III.5913 using appropriate hazard assessment techniques, design and maintain a safe facility, and minimize the off-site consequences of accidental releases of such substances that do occur.

SPECIFIC REQUIREMENTS

AI ID: 1406 - Motiva Enterprises LLC - Norco Refinery
 Activity Number: PER20070018
 Permit Number: 2629-W2
 Air - Title V Regular Permit Major Mod

UNF005 Hydrocracking Unit

232 [LAC 33:III.5911.A]

233 [LAC 33:III.5911.C]

234 [LAC 33:III.905]

235 [LAC 33:III.913]

236 [LAC 33:III.917.A]

237 [LAC 33:III.917.B]

238 [LAC 33:III.919.D]

239 [LAC 33:III.927]

240 [LAC 33:III.929.A]

Submit registration: Due January 31, 1998, or within 60 days after the source becomes subject to LAC 33:III.Chapter 59, whichever is later. Include the information listed in LAC 33:III.5911.B, and submit to the Office of Environmental Compliance.

Submit amended registration: Due to the Office of Environmental Compliance within 60 days after the information in the submitted registration is no longer accurate.

Install air pollution control facilities whenever practically, economically, and technologically feasible. When facilities have been installed on a property, use them and diligently maintain them in proper working order whenever any emissions are being made which can be controlled by the facilities, even though the ambient air quality standards in affected areas are not exceeded.

Provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities, exclusive of instruments and sensing devices as may be necessary for proper determination of emission limits.

Where, upon written application of the responsible person or persons, the administrative authority finds that by reason of exceptional circumstances strict conformity with any provisions of these regulations would cause undue hardship, would be unreasonable, impractical or not feasible under the circumstances, the administrative authority may permit a variance from these regulations.

No variance may permit or authorize the maintenance of a nuisance, or a danger to public health or safety.

Submit Emission Inventory (EI)/Annual Emissions Statement: Due annually, by the 31st of March for the period January 1 to December 31 of the previous year unless otherwise directed. Submit emission inventory data in the format specified by the Office of Environmental Assessment.

Include all data applicable to the emissions source(s), as specified in LAC 33:III.919.A-D.

Report the unauthorized discharge of any air pollutant into the atmosphere in accordance with LAC 33:I.Chapter 39, Notification Regulations and Procedures for Unauthorized Discharges. Submit written reports to the department pursuant to LAC 33:1.3925. Submit timely and appropriate follow-up reports detailing methods and procedures to be used to prevent similar atmospheric releases.

No person or group of persons shall allow particulate matter or gases to become airborne in amounts which cause the ambient air quality standards to be exceeded.